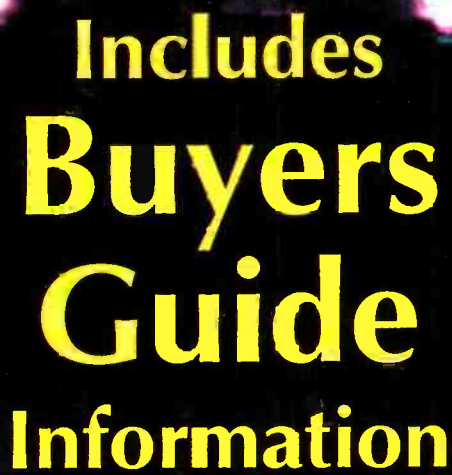


# BROADCAST<sup>®</sup>

An INTERTEC<sup>®</sup> Publication

December 15, 1995 \$5.00

# engineering



Includes  
**Buyers  
Guide**  
Information





# KCAL-TV/California 9 Wins Edward R. Murrow Award for News Excellence



**WHEATSTONE is proud to be a continuing part:**

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- SP-5 console S/N 15697 delivered July 1985
- SP-5 console S/N 15754 delivered September 1985
- SP-5 console S/N 15818 delivered October 1985
- SP-5 console S/N 15927 delivered October 1985
- V-600 console S/N 22121 delivered October 1994
- V-600 console S/N 23436 delivered October 1995

KCAL-TV-9 is owned and operated by the Walt Disney Company

 Wheatstone Corporation

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tel 315-452-5000 / fax 315-452-1160 / Wheatstone@aol.com

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**H** A Harman International Company

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**ON THE COVER:** A generic integrated circuit (IC) mounted on a circuit board. Chips like this one are used throughout modern electronic equipment.

The Buyers Guide is a comprehensive directory for the broadcast, cable and production industries. The special *BE* publication can be used as a guidebook whenever an equipment purchase is being planned. Keep this annual publication on your desk for reference throughout the year.



# If you made this many improvements, you'd want to broadcast it too.

Faster processing with  
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a single playlist

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of spots

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broadcast  
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Avid Broadcast  
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Today, hundreds of broadcasters worldwide are using the Avid AirPlay® system for news and commercial playback. That's an impressive following. Even more impressive is Avid's new AirPlay MP playback server, designed for better performance, faster operation and superb images. Learn more about AirPlay MP and the broadcasters who have already made the move to disk-based playback. To request a free Avid AirPlay Case Study Portfolio, call Avid today at 1-800-949-AVID (1-800-949-2843) PRESS 1.





**W**elcome to the 1996 *Broadcast Engineering* Buyers Guide. This 15th reference issue includes the most recent information available about manufacturers and other sources of products and services for the broadcast, cable and production industries.

The Manufacturer Directory lists more than 1,800 companies from more than 25 countries. When the headquarters office of a company is not in the United States, we try to include both the foreign and domestic addresses for the convenience of our international audience.

Advertisers in this issue were offered options to include some of their sales offices or a comment about their company or product line. Colored listings represent companies that have advertisements in this issue. For the location of their respective ads, see page 104.

As the world continues to become more tightly knit, we have included country and city codes for international companies. When calling international numbers, keep in mind that it may not be necessary to dial "0" preceding the city code. You will also notice that many companies provided E-mail addresses this year, which will enable you to make contacts on-line through various services.

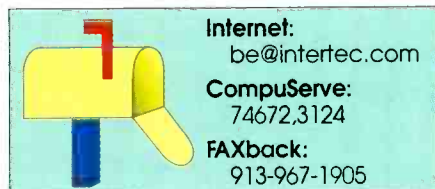
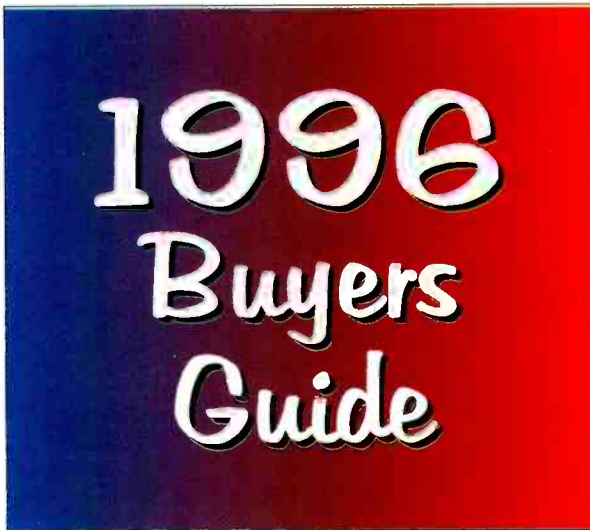
More than 220 general product categories are arranged into Audio, Video, RF, Test & Measurement, Computer/Automation, Ancillary/Support and Services sections. Nearly 100 subcategories break the general categories into more specific product areas. The Product Directory includes more than 10,000 entries to help you find a supplier for the products you need. The final section of the 1996 Buyers Guide lists many of

the professional organizations associated with the broadcast, cable and production industries. See page 96 for a complete listing.

Thank you for your interest and support of *Broadcast Engineering* magazine. We are always open to your ideas and opinions and hope to hear from you.



Carl Bentz, directories manager





# SATURN



## The only Master Control Switcher that is committed to the expanding future.



Thanks to its unique modular system architecture, the Saturn Master Control Switcher from BTS offers you the ability to adapt to the changing requirements of your on-air operation.

Saturn's basic configuration has all the features that you need to support the most demanding on-air requirements. Two fully independent linear keyers and audio mixers, user-selectable transition types and rates, and complete machine control capabilities all work together to ensure accurate, reliable and consistent operation.

But Saturn is much more than your traditional master control switcher.

Need to serve additional output channels? No problem. Saturn can handle up to 15 channels from a single control position or you can share channels among two or more control positions, with single-button access to assign a channel to a panel. Need to add audio channels to accommodate SAP or other new services? Saturn lets you run up to six independent audio channels per video channel—with full mixing and level control on each channel.

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Call us today for complete information on Saturn and the other products from BTS that are designed to help you improve the way you work today and to smooth your transition into the exciting new world of the future.

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(full scale)



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Fax : (33-1) 30 70 35 35

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# ER



# Manufacturers Address Directory

Colored listings represent companies that have advertisements in this issue. For the location of their respective ads, see page 104.

a

**A2T Production**  
Rue Guy Mocquet 30  
F-94130 Nogent-Sur-Marne France  
+33 1 4877-0506  
Fax: +33 1 4877-6885

**Aarmor Case Co**  
2100 Lapo Road  
Lake Odessa MI 48849  
616-374-5431; 800-722-5763  
Fax: 616-374-8686

**AAVS/Advanced Audio Visuel Systemes**  
222-226 rue de Rosny  
F-93100 Montreuil France  
+33 1 4988-3434  
Fax: +33 1 4857-3358

**AAVS/Sencore**  
3200 Sencore Dr  
Sioux Falls SD 57107  
605-339-0100; 800-769-2287  
Fax: 605-335-6379

**ABC Digital**  
**Australian Broadcast Corp**  
ABC Ultimo Centre  
700 Harris St #2007  
Sydney Australia  
+61 2 333 2209  
Fax: +61 2 333 1413

**ABE Electronica SPA**  
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I-24043 Caravaggio (BG) Italy  
+39(0)363 351007  
Fax: +39(0)363 50756

**Acces I/O Products**  
9400 Activity Rd  
San Diego CA 92126  
619-693-9005; 800-326-1649  
Fax: 619-578-9711

**Ac-cetera Inc**  
3120 Banksville Rd  
Pittsburgh PA 15216  
412-344-8609; 800-537-3491  
Fax: 412-344-0818  
E-Mail: aaps.pgh.nauticom.net

**Accom Inc**  
1490 O'Brien Dr  
Menlo Park CA 94025  
415-328-3818  
Fax: 415-327-2511

**Accurate Sound**  
3475A Edison Way  
Menlo Park CA 94025  
415-365-2843  
Fax: 415-365-3057

**Accu-Weather Inc**  
619 W College Ave  
State College PA 16801  
814-234-9601  
Fax: 814-238-1339  
E-Mail: intemail@accuwx.com

**ACM: Akustik und Studioplanungs GmbH**  
Zeppelinstraße 59  
D-81669 München Germany  
+49(0)89-480-2821  
Fax: +49(0)89-448-5978

**Acoustech**  
306 Maple Ridge #2  
Ann Arbor MI 48103  
313-663-7013  
Fax: 313-663-7013

**Acoustic Sciences Corp**  
855 W 1st Ave  
Eugene OR 97402  
541-343-9727; 800-ASC-TUBE  
Fax: 541-343-9245

**Acoustic Systems**  
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Austin TX 78764  
512-444-1961; 800-749-1460  
Fax: 512-444-2282

**Acoustical Solutions**  
**Alpha Audio Acoustics**  
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Fax: +33 1 4253-3677

**ADC Telecommunications Inc**  
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612-938-8080; 800-366-3891  
Fax: 612-946-3292

**ADCOM Electronics**  
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416-251-2748, Fax: 416-151-3777

**Adcour Inc**  
18 Billings St, Sharon MA 02067  
617-784-8123; 800-232-3557  
Fax: 617-784-5563

**ADTT (Advanced Digital Television Technologies)**  
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F-92050 Paris La Defense Cedex France  
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Fax: +33 1 4904-9626

**ADM Systems**  
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810-524-2100  
Fax: 810-932-1991

**Adrienne Electronics Corp**  
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702-896-1858; 800-782-2321  
Fax: 702-896-3034

**ADT (Applied Digital Technology)**  
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Gainesville FL 32609  
904-338-0516  
Fax: 904-338-1108

**Adtec Audio Video Produkte GmbH**  
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D-22089 Hamburg Germany  
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Fax: +49(0)40-256-531

**Adtec Productions Inc**  
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615-256-6619  
Fax: 615-256-6593

**Advance Products Co**  
PO Box 2178, Wichita KS 67201  
316-263-4231  
Fax: 316-263-4245

**Advanced Audio Visual Systems**  
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Fax: 606-282-7581

**Advanced Designs Corp**  
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812-333-1922  
Fax: 812-333-2030

**Advanced Digital Imaging**  
1250 N Lakeview #O  
Anaheim CA 92807  
714-779-7772  
Fax: 714-779-7773

**Advent Communications Ltd**  
Preston Hill House/Nashleigh Hill  
Chesham England HP5 3HE  
+44(0) 1494 774400  
Fax: +44(0) 1494 791127

**AEQ SA**  
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E-28914 Madrid Spain  
+34 1 686-1300  
Fax: +34 1 686-4492

**Aerial Films Inc**  
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201-984-6680; 800-543-8947  
Fax: 201-984-6899

**AETA**  
361 Ave du General de Gaulle  
F-92140 Clamart France  
+33 1 4136 1204  
Fax: +33 1 4136 1213

**AEV SRL**  
Via Saviolo I/E - S Giov Persiceto  
I-40017 Bologna Italy  
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**AF Associates Inc**  
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Fax: 201-784-8637

**Agfa Corp**  
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Fax: 214-304-0550

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Boston MA 02116-5222  
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Fax: 617-542-7222

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Fax: 916-274-9442

**Akai Digital**  
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Fax: 817-870-1271

**AKG Acoustics**  
8500 Balboa Blvd, Northridge CA 91329  
818-830-8278  
Fax: 818-830-7825

**AKG Akustische und Kino-Geräte GmbH**  
Lemböckgasse 21-25  
A-1230 Wien (Vienna) Austria  
+43 1 866-54-241  
Fax: +43 1 866-54-205

**Alamar Electronics USA Inc**  
1711 Dell Ave, Campbell CA 95008  
408-866-9373  
Fax: 408-370-4861

**Alarmco**  
1 Bailey Dr, Guilford CT 06437  
203-499-5178; 800-824-5006  
Fax: 203-458-2696

**Albrecht Studiogeräte GmbH (MWA)**  
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D-12045 Berlin Germany  
+49(0)30-623-6039  
Fax: +49(0)30-623-1031

**Alcatel Components**  
248 Wickham Road  
Moorabin Victoria Australia 3189  
+61 3 9555 1566  
Fax: +61 3 9553 3801

**Alcatel STR**  
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CH-8055 Zurich Switzerland  
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Fax: +41 1 465-2411

**Alden Electronics Inc**  
40 Washington St  
Westboro MA 01581  
508-366-8851  
Fax: 508-898-2427

**Alesis Corp**  
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Los Angeles CA 90016  
310-558-4530; 800-5-ALESIS  
Fax: 310-836-9192

**Alexander Batteries**  
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1511 S Garfield Place  
Mason City IA 50401  
515-423-8955; 800-526-ALEX  
Fax: 515-423-1644

**Alias Research Corp**  
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Toronto Canada  
416-362-9181  
Fax: 416-362-0630

**Allen & Heath**  
8760 S Sandy Parkway  
Sandy UT 84070  
801-568-7660; 800-777-1363  
Fax: 801-568-7662

**Allen Avionics Inc**  
224 E 2nd St  
Mineola NY 11501  
516-248-8080  
Fax: 516-747-6724



**Allen Osborne Associates**  
756 Lakefield Road-J  
Westlake Village CA 91361  
509-735-6812  
Fax: 509-735-6812

**Allied Tower Co Inc**  
12450 Galveston Road  
Webster TX 77598  
713-486-7691; 800-332-0025  
Fax: 713-486-6562

**Alpha Image Ltd - Dynatech**  
4 Votec Centre - Hambridge Lane  
Newbury Derks England RG14 5TN  
+44(0) 1635 521939  
Fax: +44 1635 528387

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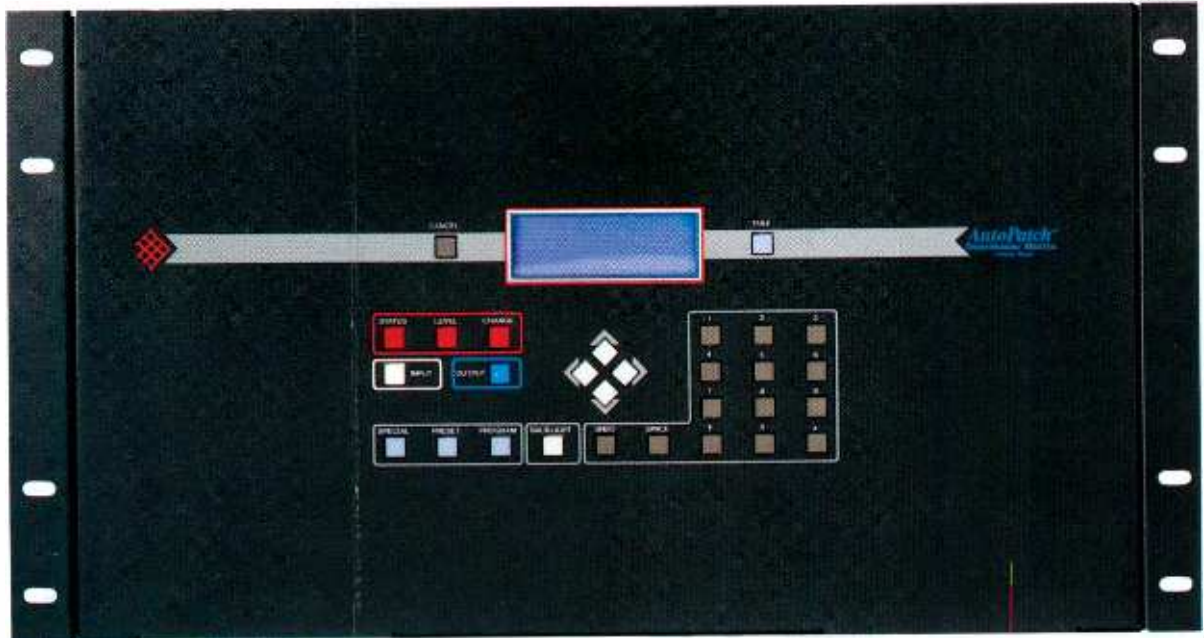
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AutoPatch division of XN Technologies, Inc. 14 Calispell, Box 350 Cheney, WA 99004 USA  
US & Canada: 800-622-0246 Phone: 509-235-2636 Fax: 509-235-2646

# Manufacturers Address Directory

**Alpha Video & Electronics Co**  
200 Keystone Dr, Carnegie PA 15106  
412-429-2000  
Fax: 412-429-2015

**Alpha Wire Corp**  
711 Lidgerwood Ave  
Elizabeth NJ 07207-0711  
908-925-8000; 800-52-ALPHA  
Fax: 908-925-7429

**Alpine Optics Inc**  
9913 NW 20 St, Coral Springs FL 33071  
954-344-9871  
Fax: 954-344-3665

**Alta Group Inc - Dynatech**  
180 Wright Brothers Road #670  
Salt Lake City UT 84116  
801-328-8872  
Fax: 801-328-3668

**Altac Lansing**  
PO Box 26105, Oklahoma City OK 73126  
405-324-5311  
Fax: 405-324-8981

**Altronic Research Inc**  
PO Box 249, Yellville AR 72687  
501-449-4093; 800-482-5623  
Fax: 501-449-6000

**Aluma Tower Co Inc**  
PO Box 2806-BE  
Vero Beach FL 32961-2806  
407-567-3423  
Fax: 407-567-3432

**Amco Engineering Co**  
3801 N Rose St, Schiller Park IL 60176  
708-571-6670; 800-833-3156  
Fax: 708-671-9469  
Area code 847 as of 1/20/96

**AMEK Systems & Controls Ltd New  
Islington Mill Regent Trading Est**  
Oldfield Road  
Salford England M5 4DE  
+44(0) 1618 346747  
Fax: +44(0) 1618 340593

**AMEK US Operations Inc**  
10815 Burbank Blvd  
N Hollywood CA 91601  
818-508-9788  
Fax: 818-508-8619

**American Broadcast Systems Inc**  
8222 Jamestown Drive #109B  
Austin TX 78758  
512-837-3737; 800-950-2223  
Fax: 512-837-3791

**American Laser Systems**  
PO Box 6944, Santa Barbara CA 93160  
805-967-0423  
Fax: 805-683-4382

**American Mobile Satellite Corp**  
10802 Parkridge Blvd, Reston VA 22091  
800-872-6222  
Fax: 703-758-6239  
E-Mail: sts\_general@skycell.com

**AML Inc**  
900-K Calle Plano, Camarillo CA 93012  
805-388-1345  
Fax: 805-484-2191

**AMP**  
PO Box 3608, Harrisburg PA 17105-3608  
717-564-0100; 800-522-6752  
Fax: 717-986-7575

**Ampco Sound Lab (ASL)**  
Zonnebaan 42a  
NL-3606 CC Maarssenbroek  
The Netherlands  
+31-30-2414500, Fax: +31-30-2410638

**Ampex Corp**  
401 Broadway MS3A-01  
Redwood City CA 94063  
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Fax: 415-367-4669

**Ampex Media**  
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Fax: 415-367-4132

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Fax: +44(0)1256-881145

**AMS Neve PLC/A Siemens Co**  
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Burnley, Lancs. England BB11 5UB  
+44(0)1282-457011  
Fax: +44(0)1282-39542

**Amtel Systems Inc**  
310 Judson St Unit 6 # 303  
Toronto ON Canada M8Z 5T6  
416-251-2748; 416-251-3355  
Fax: 416-251-3977

**AMX Corp**  
11995 Forestgate Drive, Dallas TX 75243  
214-644-3048; 800-222-0193  
Fax: 214-907-2053

**Anchor Communication/Porta-Com**  
913 W 223rd St, Torrance CA 90502  
310-533-5984; 800-262-4671  
Fax: 310-328-4680



**Andrew Corp**  
10500 W 153rd St  
Orland Park IL 60462  
708-349-3300; 800-255-1479  
Fax: 800-349-5444

**Angenieux SA**  
F-42570 Saint Heand France  
+33 7730-4210  
Fax: +33 7730-9709

**Eric Neil Angevine PE**  
420 E Rogers Drive  
Stillwater OK 74075-1626  
405-744-6444; 405-372-3949  
Fax: 405-744-6491

**R B Annis Co Inc**  
1101 N Delaware, Indianapolis IN 46202  
317-637-9282  
Fax: 317-637-9282

**Anritsu Wiltron**  
685 Jarvis Drive, Morgan Hill CA 95037  
408-776-8300; 800-230-2972  
Fax: 408-776-1744



**Antenna Concepts Inc**  
6601C Merchandise Way  
Diamond Springs CA 95619  
916-621-2015  
Fax: 916-622-3274

Antenna Concepts Inc designs, engineers and manufactures broadcast antennas for UHF, VHF, FM, MDS and PCS applications. Designs include industry-standard slot and panel types as well as the innovative circularly polarized end-fire helix blaster. All antennas are HDTV-compatible, patterns on file with ECC. Low to high power (180kW) available as well as channel combiners and filters.

**Antex Electronics**  
16100 S Figueroa St  
Gardena CA 90248  
310-532-3092; 800-338-4231  
Fax: 310-532-8509  
E-Mail: antexsales@ad.com

**Anthro Corp**  
10450 SW Manhasset Dr  
Tualatin OR 97062  
503-691-2556; 800-325-3841  
Fax: 800-325-0045  
E-Mail: sales@anthro.com

**Anton/Eauer Inc**  
One Controls Drive, Shelton CT 06484  
203-929-1100; 800-422-3473  
Fax: 203-929-9935

**Anvil Cases**  
15650 Salt Lake Ave  
City of Industry CA 91745  
818-968-4100; 800-359-2684  
Fax: 818-968-1703

**Aphex Systems**  
11068 Randall St, Sun Valley CA 91352  
818-767-2929  
Fax: 818-767-2641

**API-Audio Products Inc**  
7655-G Fullerton Rd  
Springfield VA 22153  
703-455-8188  
Fax: 703-455-4240

**Apogee Electronics Corp**  
3145 Donald Douglas Loop S  
Santa Monica CA 90405  
310-915-1000  
Fax: 310-391-6262

**Applied Research & Technology**  
215 Tremont St, Rochester NY 14608  
716-436-2720, Fax: 716-436-3942

**APS Professional Video Products**  
67-16 Myrtle Ave, Glendale NY 11385  
718-628-6800; 800-628-6801  
Fax: 718-628-7441

**Arden Technologies Inc**  
3403 NW 55 St, Ft Lauderdale FL 33309  
954-730-0565  
Fax: 954-730-2298

**Arrakis Systems**  
2619 Midpoint Drive  
Fort Collins CO 80525  
970-224-2248  
Fax: 970-493-1076

**Arriflex Corp**  
617 Route 303, Blauvelt NY 10913  
914-353-1400  
Fax: 914-425-1250  
E-Mail: compuserve 72052,175

**Artel Communications**  
22 Kane Industrial Drive  
Hudson MA 01749  
508-562-2100; 800-225-0228  
Fax: 508-562-1490

**ASA Productions**  
PO Box 244, Yorba Linda CA 92686  
714-998-5575  
Fax: 714-998-5576



**ASACA/ShibaSoku Corp of America**  
12509 Beatrice St  
Los Angeles CA 90066  
310-827-7144; 800-423-6347  
Fax: 310-306-1382

Asaca/ShibaSoku Corp of America, founded in 1972, supplies the television and commercial industries with a variety of quality audio and video test, monitoring and systems products, including: A/V signal analyzers; auto setup, HR & digitally control monitors with display assessment; digital audio generators; envelope delay measuring sets; signal, sync & sweep generators; closed captioning equipment; encoders; decoders; distribution amplifiers and routers; erasable rewritable M-O disk audio files; videodisc recorders; still stores; mass storage systems; GCR and HDTV equipment; dropout counters, tape cleaners, evaluators and rewinders; as well as video cart systems and video noise meters.

**ASC Audio Video**  
3816 Burbank Blvd, Burbank CA 91505  
818-843-7004  
Fax: 818-842-8945

**Ashly Audio Inc**  
100 Fernwood Ave., Rochester NY 14621  
716-544-5191; 800-828-6308  
Fax: 716-266-4589

**The Associated Press**  
AP Broadcast News Center  
1825 K St NW  
Washington DC 20006-1253  
202-736-1100; 800-821-4747  
Fax: 202-736-1124

**Aston Electronic Designs Ltd**  
123 Deepcut Bridge Road, Deepcut  
Camberley Surrey England GU16 6SD  
+44(0) 1252-836221  
Fax: +44(0) 1252-837923  
E-Mail: Mark White@msn.com

**Astre Systems Inc**  
1046 Reno Ave, Modesto CA 95351  
209-575-1000; 800-949-3127  
Fax: 209-575-0322

**ATI-Audio Technologies Inc**  
328 W Maple Ave  
Horsham PA 19044  
215-443-0330; 800-959-0307  
Fax: 215-443-0394

**ATI Technologies**  
33 Commerce Valley Dr E  
Thornhill ON Canada L3T 7N6  
905-882-2600  
Fax: 905-882-2620

**Atlantic Satellite Communications Inc**  
240 Pegasus Ave  
Northvale NJ 07647  
201-784-0555  
Fax: 201-767-0781

**Atlas/Soundier -  
Atapco Security & Com**  
1859 Intertech Drive  
Fenton MO 63026  
314-349-3110; 800-876-7337  
Fax: 314-349-1251

**Audi-Cord Corp**  
1845 W Hovey Ave, Normal IL 61761  
309-452-9461  
Fax: 309-452-0893

**Audio Accessories Inc**  
Mill St, Marlow NH 03456  
603-446-3335  
Fax: 603-446-7543

**Audio Bauer Pro AG**  
Bernerstraße-Nord 182  
CH-8064 Zurich Switzerland  
+41(0)1-432-32-30  
Fax: +41(0)1 432-65-58

**Audio Broadcast Group Inc**  
2342 S Division Ave  
Grand Rapids MI 49507  
616-452-1596; 800-999-9281  
Fax: 616-452-1652  
E-Mail: compuserve: 75371,144;  
internet: support@abg.com; web site:  
www.abg.com

**Audio Design**  
Unit 3 Horsehoe Park  
Pangbourne Berks England RG8 7JW  
+44(0) 1734-844545  
Fax: +44(0) 1734-842604  
E-Mail: sales@adr.tcom.co.uk

**Audio Developments Ltd**  
Hall Lane Walsall Wood  
West Midland England WS9 9AU  
+44(0)1543-375351  
Fax: +44(0)1543-361051

**Audio Follow**  
73 rue de l'Evangile (CAP 18-Voie D)  
F-75886 Paris Cédex 18 France  
+33 1 4607 2626  
Fax: +33 1 4607 0026

**Audio Kinetics UK Ltd**  
Kinetic Centre/Theobald St  
Borehamwood Herts England WD6 4PJ  
+44(0)1819 53-8118  
Fax: +44(0)1819 53-1118

**Audio Ltd**  
26-28 Wendell Road  
London England GB-W12 9RT  
44(0)1817 43-1518  
Fax: 44(0)1817 46-0086  
E-Mail: 100260.2774@compuserve.com

**Audio Limited USA (Murry  
Rosenblum Sound Associates)**  
21-36 33 Rd, Long Island City NY 11106  
718-728-2654  
Fax: 718-728-2654



# Manufacturers Address Directory

**Audio precision**

## Audio Precision

5465 SW Western Ave #J (PO Box 2209)  
Beaverton OR 97005  
503-627-0832; 800-231-7350  
Fax: 503-641-8906

## Audio Processing Technology Ltd

Edgewater Road  
Belfast North Ireland BT3 9JQ  
+44(0)1232 371110  
Fax: +44(0)1232 371137

## Audio-Technica Corp

2206 Naruse Machida  
Tokyo Japan J-194  
+81-4 2729 5111  
Fax: +81-4 2728 1710

## Audio-Technica US Inc

1221 Commerce Drive, Stow OH 44224  
216-686-2600  
Fax: 216-686-0719

## Audio-Video Engineering Co

65 Nancy Blvd, Merrick NY 11566  
516-546-4239  
Fax: 516-623-7213

## Audio Video Design Inc

2358 Gabriel Lane  
W Palm Beach FL 33406  
407-966-3565; 800-749-7266  
Fax: 407-966-4095

## Audioarts Engineering

7305 Performance Drive  
Syracuse NY 13212  
315-452-5000  
Fax: 315-452-0160  
E-Mail: wheatstone@aol.com

## AudioControl Industrial

22410 70th Ave W  
Mountlake Terrace WA 98043  
206-775-8461  
Fax: 206-778-3166  
E-Mail: audcon@ix.netcom.com

## Audiolab Electronics Inc

5831 Rosebud Lane Bldg C  
Sacramento CA 95841  
916-348-0200; 800-624-1903  
Fax: 916-348-1512

## Audiomation/Sellmark

30 Main St, Ashland MA 01721  
508-881-7808  
Fax: 508-881-7928

## Audiomation Systems

Unit 11B Greencroft Ind Park  
Annfield Plain Stanley  
Greencroft England GB-DH9 7YB  
+44 (0)1207-529-444  
Fax: +44(0)1207-521-518

## Audiopak Inc

PO Box 3100  
Winchester VA 22604  
540-667-8125; 800-522-CART  
Fax: 540-667-6379

## Audioscope srl

Via Giulio Cesare Cordara 32  
I-00179 Roma Italy  
+39-6-780-6979  
Fax: +39-6-783-44889

## Auditem SA

Centre Coundord, Rue Portmann  
F-33300 Bordeaux France  
+33 1 5669 3737  
Fax: +33 1 5669 3730

## Auditrionics Inc

3750 Old Getwell Road  
Memphis TN 38118-6075  
901-362-1350  
Fax: 901-365-8629

## Audix Broadcast Ltd

Station Rd Wenden Saffron Walden  
Essex England CB11 4LG  
+44(0) 1799-542220  
Fax: +44(0) 1799-541248

## Audix Corp

29103 SW Kinsman Rd  
Wilsonville OR 97070  
503-682-6933  
E-Mail: aol: ccaudix

## Auernheimer Labs & Co

4561 E Florence Ave  
Fresno CA 93725  
209-442-1048

## Augan Instruments

Wilhelmina Straat 31  
NL-6881 LH Velp The Netherlands  
+31 26-3648-966  
Fax: +31 26-3644-785

## Auratone Corp

PO Box 180698  
Coronado CA 92178-0698  
619-297-2820  
Fax: 619-296-8734

## Aurora/Chyron Corporation

2230 Martin Ave  
Santa Clara CA 95050  
408-988-2000  
Fax: 408-986-0452

## The Austin Co

3650 Mayfield Rd  
Cleveland OH 44121  
216-382-6600  
Fax: 216-291-6684

## Autocue Ltd

Autocue House/265 Merton Road  
London England SW18 5JS  
+44(0)1818 70-0104  
Fax: +44(0)1818 74-3726  
E-Mail: MHS:info@autocue  
(compuserve)

## Autogram Corp

1500 Capital Ave, Plano TX 75074  
214-424-8585; 800-327-6401  
Fax: 214-423-6334

## Automated Weather Source

14115 Seneca Road  
Darnestown MD 20874  
301-258-8390  
Fax: 301-948-5352



## AutoPatch/XN Technologies

14 Calispell (Box 350)  
Cheney WA 99004  
509-235-2636; 800-622-0246  
Fax: 509-235-2646  
E-Mail: autopatch@xn-tech.com

XN Technologies develops and manufactures equipment for the audio/video, medical and instrumentation industries. The principal product it ships is the AutoPatch line of audio, video and data distribution matrices, products now available through dealers in North America and offshore distributors located in Europe, South America and the Pacific Rim. XN has recently opened a branch office in Singapore to facilitate the increasing number of orders from that region.

## AVCOM of Virginia Inc

500 Southlake Blvd  
Richmond VA 23236  
804-794-2500  
Fax: 804-794-8284



## AVID Technology Inc

1 Park W. Metropolitan Tech Park  
Tewksbury MA 01876  
508-640-6789; 800-949-AVID  
Fax: 508-640-1366  
E-Mail: info@avid.com

## Avitel Electronics Ltd

#6 Croydon Rd/Indus Estate  
Kent England BR3 4BY  
+44(0) 1816 55-3200  
Fax: +44(0) 1816 55-0509

## Avitel Inc

3678 W 2100 S  
Salt Lake City UT 84120  
801-977-9553  
Fax: 801-977-9674

## Avocet Instruments Inc

7783 Cirrus Dr  
Beaverton OR 97008  
503-671-9424; 800-443-0728  
Fax: 503-671-4626

## AVP Manufacturing & Supply Inc

11 Brown Ave, RR2  
Cambridge ON Canada N1R 5S3  
519-740-7966  
Fax: 519-740-0131

## AVS Broadcast

Venture House/Davis Road  
Chessington Surrey England KT9 1TT  
+44(0) 1813 91-5678  
Fax: +44 181 391-5409

## AVS Graphics Ltd

The Oast House/5 Mead Lane  
Farnham/Surrey England GU9 7DY  
+44(0) 1252 717151  
Fax: +44 (1252) 717073

## A-Ware Software Inc

22600 Arcadian Ave  
Waukesha WI 53186  
414-521-2890; 800-326-2609  
Fax: 414-521-2892  
E-Mail: a-ware@execpc.com

## Access USA Corp

6620 Riverside Drive #200  
Metairie LA 70124  
504-889-9800; 800-264-3777  
Fax: 504-887-0950

## Axon Digital Design BV

Spoorakkerweg 2B  
NL-5071 NC Udenhout The Netherlands  
+31 (0) 13511 4500  
Fax: +31 (0) 13511 4151  
E-Mail: 100704,2430@compuserve.com

## Aydin Controls

414 Commerce Drive  
Fort Washington PA 19034  
215-542-7800  
Fax: 215-542-8447

## A/Z Associates

PO Box 357  
Needham MA 02192  
617-444-0191; 800-441-3179  
Fax: 617-444-0757  
E-Mail: 74733.2126@compuserve.com

## Azden Corp

147 New Hyde Park Rd  
Franklin Square NY 11010  
516-328-7500  
Fax: 516-328-7506

## Aztec sa

Rue du Chemin de Fer 31  
F-67200 Strasbourg France  
+33-8830-9090  
Fax: +33-8830-9099  
E-Mail: 100043,3075@compuserve.com



## B&H Photo

119 W 17th St, New York NY 10011  
212-444-5028; 800-947-9928  
Fax: 212-444-5001  
E-Mail: 76623.570@compuserve.com

## BAF Communications Corp

314-16 Northstar Court  
Sanford FL 32771  
407-324-8250; 800-633-8223  
Fax: 407-324-7860

## BAI Systems Inc

20 Red Rose Drive  
Levittown PA 19056  
215-547-7133  
Fax: 215-547-6021

## Baird Satellite Supporting Systems

3160 Logan Ave  
Waterloo IA  
319-233-3561  
Fax: 319-235-7653

## BAL Broadcast Ltd

Hazell Way/Nuneaton  
Warwickshire England CV10 7PQ  
+44(0) 1203-375827  
Fax: +44(0)1203-642375

## Balboa Capital Corp

2030 Main St #610, Irvine CA 92714  
714-756-0800; 800-950-2050  
Fax: 714-756-2565

## Balcar

32 blvd Flandrin, F-75116 Paris France  
+33 1 4503-0030  
Fax: +33 1 4503-1248

## The Baranti Group Inc

2650 John St #22  
Markham ON Canada L3R 2W6  
416-479-0148  
Fax: 416-479-0149

## Barbizon Light

3 Draper St, Woburn MA 01801  
617-935-3920  
Fax: 617-935-9273

## BARCO-EMT GmbH/Audio Div

PO Box 200  
D-77968 Kippenheim Germany  
+49(0)7825 906-141  
Fax: +49(0)7825 10600

## Barco Inc

1000 Cobb Place Blvd  
Kennesaw GA 30144  
770-590-7900  
Fax: 770-590-8836

## BARCO NV/Video & Communica-tions

Th Sevenslaan 106  
B-8500 Kortrijk Belgium  
+32 56 386 493  
Fax: +32 56 386 293

## Bardwell & McAlister Inc

10314 Norris Ave #G  
Pacoima CA 91331  
818-834-6136  
Fax: 818-897-2647

## Baron Services Inc

2121 Metro Circle  
Huntsville AL 35801  
205-881-8811  
Fax: 205-881-8283

## B&B Electronics Mfg Co

PO Box 1040 (707 Dayton Rd)  
Ottawa IL 61350  
815-433-5100  
Fax: 815-434-7094  
E-Mail: catrst@bb-elec.com

## B&B Systems Inc

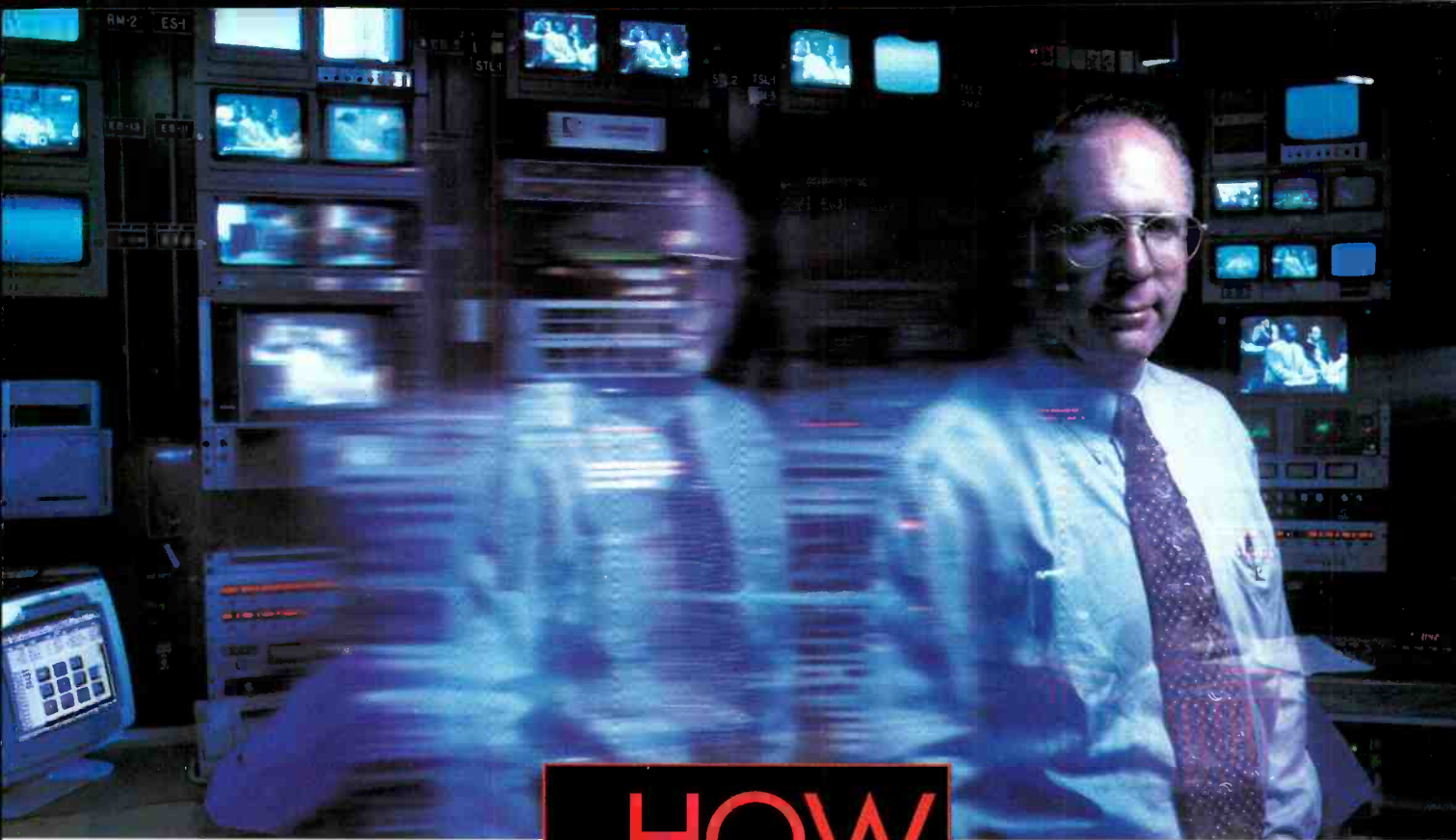
28111 Ave Stanford  
Valencia CA 91355  
805-257-4853  
Fax: 805-257-8065

## BBE Sound Inc

5381 Production Dr  
Huntington Beach CA 92649  
714-897-6766  
Fax: 714-896-0736

## BC Video Services

Unit of BC Group International  
9415 Gentry Ave  
St Louis MO 63125  
314-638-3800; 800-242-8428  
Fax: 314-638-3200



**IF** you want to make the move from tape to disk, Ira Goldstone has a few quick words of advice:

**HOW FAST CAN YOU DISKO?**

**Q:** As Director of Engineering at Tribune Broadcasting, you're in the midst of updating your entire system. How do you deal with the pressure?

**A:** *Carefully.*

**Q:** Right. So did you choose the Louth ADC-100 automation system to bridge to disk or give you future flexibility?

**A:** *Yes.*

**Q:** Meaning you liked Louth's ability to control all types of different devices?

**A:** *Yes.*

**Q:** And you weren't worried about any problems with propri-

**L O U T H**  
A U T O M A T I O N

etary automation software or choosing any disk vendor you wanted?

**A:** *No.*

**Q:** So if you were to give advice on how to make the transition to disk, without worrying about where your station goes in the future, what would it be?

**A:** *Louth.*

**Q:** And what about the multi-casting environment?

**A:** *Louth.*

**Q:** Of course, you'd still need a media management and traffic interface system to tie it together. Any final words of advice?

**A:** *Louth.*

CORPORATE OFFICE: 545 MIDDLEFIELD ROAD, SUITE 160, MENLO PARK, CALIFORNIA 94025 (415) 329-9498 FAX: (415) 329-9530  
REGIONAL OFFICE: 8400 NORTH UNIVERSITY DRIVE, SUITE 309, TAMARAC, FLORIDA 33321 (305)722-5116 FAX: (305)722-5104



# Manufacturers Address Directory

**BCD Associates Inc**  
128 NW 6th St  
Oklahoma City OK 73116  
405-843-4574; 408-840-5450 BBS  
Fax: 405-840-3147

**BDL Autocript**  
A8 Poplar Business Park  
10 Prestons Road  
London England E14 9RL  
+44(0) 1715 38-1427  
Fax: +44(0) 1715 15-9529  
E-Mail: 100761,2572@compuserve.com

**Beachwood Studios**  
23330 Commerce Park  
Beachwood OH 44122  
216-292-7300  
Fax: 216-292-1765

**Beacon Software Inc**  
Box 23422  
Milwaukee WI 53223  
414-355-4460  
Fax: 414-355-4460

**BEC Technologies Inc**  
9460 Delegates Dr #108  
Orlando FL 32837  
407-855-8181; 800-BEC-FIXX  
Fax: 407-855-1653

**Beck Associates Inc**  
2403 Howard Lane  
Austin TX 78728  
512-388-9777; 800-728-3725  
Fax: 512-388-1833

**Franklyn R Beemish**  
PO Box 264  
Moyock NC 27958  
919-435-6179

**Lawrence Behr Associates Inc**  
PO Box 8026, 210 W Fourth St  
Greenville NC 27835-8026  
919-757-0279  
Fax: 919-752-9155



**BELAR**

**Belar Electronics Lab Inc**  
119 Lancaster Ave (Box 76)  
Devon PA 19333  
610-687-5550  
Fax: 610-687-2686

**COOPER**  
Belden

**Belden Wire & Cable Company**  
2200 US Highway 27 S  
Richmond IN 47374-1980  
317-983-5200; 800-BELDEN1  
Fax: 317-983-5294

**F W Bell Inc**  
6120 Hanging Moss Road  
Orlando FL 32807  
407-678-6900  
Fax: 407-677-5765

**Bencher Inc**  
831 N Central Ave  
Wood Dale IL 60191  
708-238-1183  
Fax: 708-238-1186

**Benchmark Media Systems Inc**  
5925 Court St Road  
Syracuse NY 13206-1707  
315-437-6300; 800-262-4675  
Fax: 315-437-8119

**Berk-Tek Inc**  
132 White Oak Road  
New Holland PA 17557-9722  
717-354-6200; 800-BERK-TEK  
Fax: 717-354-7944

**Best Power A Unit of General Signal**  
PO Box 280  
Necedah WI 54646  
608-565-7200; 800-356-5794  
Fax: 608-565-2221

**Bext Inc**  
1045 10th Ave  
San Diego CA 92101  
619-239-8462  
Fax: 619-239-8474

**beyerdynamic GmbH & Co**  
Theresienstraße 8  
D-74072 Heilbronn Germany  
+49-7131-617-0  
Fax: +49-7131-60459

**beyerdynamic**  
56 Central Ave  
Farmingdale NY 11735  
516-293-3200; 800-293-4463  
Fax: 516-293-3288

**BGW Systems Inc**  
13130 Yukon Ave  
Hawthorne CA 90250  
310-973-8090; 800-468-AMPS  
Fax: 310-676-6713

**Biamp Systems**  
14130 NW Science Park Dr  
Portland OR 97229  
503-641-7287; 800-826-1457  
Fax: 503-626-0281  
E-Mail: biampsys@aol.com

**Bi-Directional Microwave**  
3918 W Clearwater Ave  
Kennewick WA 99336-2632  
509-735-6812  
Fax: 509-735-6812

**Bird Electronic Corp**  
30303 Aurora Rd  
Cleveland (Solon) OH 44139-2794  
216-248-1200  
Fax: 216-248-5426

**Black Audio Devices**  
PO Box 106  
Ventura CA 93002  
805-653-5557  
Fax: 805-653-5557

**Blonder-Tongue Labs Inc**  
1 Jake Brown Road  
Old Bridge NJ 08857  
908-679-4000  
Fax: 908-679-4353

**The Blue Ribbon Soundworks**  
1605 Chantilly Drive #200  
Atlanta GA 30324  
404-315-0212  
Fax: 404-315-0213

**Bogen Communications Inc**  
50 Spring St, Ramsey NJ 07446  
201-934-8500  
Fax: 201-934-9832

**Bogen Photo Corp**  
565 E Crescent Ave  
Ramsey NJ 07446  
201-818-9500  
Fax: 201-818-9177

**Boland Communications**  
P.O. Box 4728  
Mission Viejo, CA 92620  
714-630-4151; 800-918-9090  
Fax: 714-630-3558

**Boonton Electronics Corp**  
PO Box 465, 25 Eastmans Rd  
Parsippany NJ 07054-0465  
201-386-9696  
Fax: 201-386-9191

**Bretford Mfg Inc**  
9715 Soreng Ave  
Schiller Park IL 60176  
708-678-2545  
Fax: 800-343-1779

**Broadcast Automation Inc**  
3006 Edgewood #13  
Gariand TX 75042  
214-487-5810; 800-336-8004  
Fax: 214-487-5810

**Broadcast Cartridge Service**  
15581 Chemical Lane  
Huntington Beach CA 92649  
714-898-7224  
Fax: 1714-898-1753

**Broadcast Communications**  
PO Box 730  
New Glarus WI 53574-0730  
608-527-5670  
Fax: 608-527-5674

**Broadcast Devices Inc**  
5 Crestview Ave  
Peekskill NY 10566  
914-737-5032  
Fax: 914-736-6916

**Broadcast Electronics Inc**  
4100 N 24th St  
Quincy IL 62301  
217-224-9600  
Fax: 217-224-9607

**Broadcast Electronic Services**  
4668 Monument Point Drive  
Jacksonville FL 32225  
904-646-1630  
Fax: 904-641-1443

**Broadcast Equipment & Parts**  
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Broadcast Television Systems, a Philips Company, manufactures, sells and services a comprehensive line of professional television systems worldwide for broadcast, production, post-production and corporate applications. BTS was founded in 1986. International headquarters are in Griesheim, Germany. Marketing, sales and service headquarters for the Americas and the Far East are in Simi Valley, CA. The Company is active in the US and Europe in developing advanced television standards.

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505-898-1455  
Fax: 505-898-0159

**BVE**  
520 N SR 153, #M37  
Greenwood IN 46142  
317-887-0996  
Fax: 317-887-0996



**C Audio**  
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Cambridge England GB-CB5-8UY  
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Fax: +44-1223-410-446



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Fax: 203-234-7718  
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510-687-4411; 800-542-3355  
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408-475-2939; 800-824-3197  
Fax: 408-475-0241

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Hebden Bridge England HX7 8EZ  
+44(0)1422-842-159  
Fax: +44(0)1422-845-244

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Fax: 818-365-0479  
E-Mail: canare@canare.com  
**Sales Offices:**

**Canford Audio**  
Crowther Road  
Washington England NE38 0BW  
+44(0)1914 170057  
Fax: +44(0)1914 160392

**Canon Europa NV**  
Bovenkerkerweg 59-61  
NL-1185XB Amstelveen The Netherlands  
+31(0)20-5458905  
Fax: +31(0)20-5458203

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201-816-2900; 800-321-4388  
Fax: 201-816-9702

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kajpd@aol.com; dtebbe@aol.com

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47323 Warm Springs Blvd  
Fremont CA 94539  
510-440-0330  
Fax: 510-440-0218

**CCS Europe GmbH**  
Ludwigstrasse 45  
D-85399 Hallbergmoos Germany  
+49-811-5516-0  
Fax: +49-811-5516-55  
E-Mail: ccs-europe@proaudio.de

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305-633-8020  
Fax: 305-635-5445

**CEDAR Audio Ltd**  
5 Glisson Road  
Cambridge England CB1 2HA  
+44(0)1223-464117  
Fax: +44(0)1223-464117

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2002 Ford Ave  
Springdale AR 72764  
501-750-0277; 800-852-1333  
Fax: 501-751-3761  
E-Mail: rwm@artran.com

**Cemtys**  
Explanada 6  
E-28040 Madrid Spain  
+34 (1) 533-2508  
Fax: +34 (1) 553-7888

**Center Video Industrial Co Inc**  
5615 W Howard St  
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708-647-8700; 800-621-4354  
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**Central Tower Inc**  
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Töptenberg 5  
D-38302 Wolfenbüttel Germany  
+49-5331-76985  
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E-Mail: 76057.2622@compuserve.com

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408-988-2000  
Fax: 408-986-0452

**CoarcVideo**  
Box 2 Route 217  
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518-672-4451; 800-888-4451  
Fax: 1518-672-4048  
E-Mail: videonated@aol.com;  
coarc@aol.com

**Coaxial Dynamics**  
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216-267-2233; 800-COAXIAL  
Fax: 216-267-3142

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Fax: 619-277-0221

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708-674-2210; 800-323-1403  
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303-530-9580  
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Fax: 818-972-5599  
E-Mail: plugin@colortran.com;  
ciran@aol

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303-237-4000  
Fax: 303-237-0085

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315-437-3953; 800-448-1666  
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E-Mail: commspec@aol.com

**Communication Resources**  
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913-541-0900; 800-255-6350  
Fax: 913-541-0169

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Fax: 410-987-6710

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407-892-6111  
Fax: 407-957-3402

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801-466-3463; 800-496-3463  
Fax: 801-484-6906

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717-474-6751; 800-COM-WAVE  
Fax: 717-474-5469

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316-342-7743  
Fax: 316-342-7405



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360-734-4323; 800-645-1061  
Fax: 360-676-4822

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319-752-3607; 800-843-5419  
Fax: 319-753-5508

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300 Long Beach Blvd  
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203-375-5577; 800-322-2537  
Fax: 203-375-5811

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Fax: 508-688-7829

**Continental Electronics Corp**  
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Dallas TX 75227  
214-381-7161  
Fax: 1214-381-4949

**Continental Microwave Ltd**  
1 Crawley Green Road  
Luton, Beds England LU2 7HU  
+44(0)1582-424233  
Fax: +44(0)1582-455273

**Control Concepts Corp**  
PO Box 1380/328 Water St  
Binghamton NY 13902  
607-724-2484; 800-288-6169  
Fax: 607-722-8713

**Cooper Sound Systems**  
31952 Paseo de Tania  
San Juan Capistrano CA 92675-3919  
714-248-1361  
Fax: 714-248-5256

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908-739-5600  
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505-326-2337  
Fax: 505-326-2337

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417 Stanford Ave  
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415-364-9988; 800-669-1422  
Fax: 415-364-2794

## CPI/Eimac Division

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415-592-1221; 800-414-TUBE  
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I-42100 Reggio Emilia Italy  
+39 52 251-6660  
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Los Angeles CA 90038-2337  
310-657-9434  
Fax: 310-967-9437

**J E Cuesta Co Inc**  
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Fax: 610-935-8856

**Current Technology Inc**  
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## D-Vision Systems Inc

8755 W Higgins Road Second Fl  
Chicago IL 60631  
312-714-1400; 800-8-DVISION  
Fax: 312-714-1405  
E-Mail: info@dvision.com

## Da Vinci Systems - Dynatech

5410 NW 33rd Ave #100  
Ft Lauderdale FL 33309-6338  
954-484-8100  
Fax: 954-486-7936  
E-Mail: info@davsys.com

## Peter Dahl Co Inc

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915-751-2300  
Fax: 915-751-0768

## Daily Electronics Corp

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360-896-8856; 800-346-6667  
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## Dalanco Spry

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Rochester NY 14618  
716-473-3610  
Fax: 716-271-8380

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251, rue du Faubourg Saint Martin  
F-75010 Paris France  
+33-1-40-38-01-39  
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E-Mail: compuserve: 100336,1140

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285 W Broadway #605  
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Fax: 212-226-1673

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718-361-1100; 800-453-2547  
Fax: 718-392-7654  
E-Mail: hldalis@ix.netcom.com;  
102401.1033@compuserve.com

## Robert J Dame/Airspace Consultant

12312 Mt Pleasant Dr  
Laurel MD 20708  
301-498-6334  
Fax: 301-498-6334

## Danbridge A/S

5 Hirsemarken  
DK-3520 Farum Denmark  
+45-429-55522  
Fax: +45-429-54504

## Danish Pro Audio ApS/Brüel & Kjær

Hejrevang 11  
DK-3450 Allerød Denmark  
+45-4814-2828  
Fax: +45-4814-2700

## D A T A Business Publishing

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Opelika AL 36801  
334-749-5641  
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PO Box 30730  
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Fax: 301-652-8822

## Dateq Audio Technologies

De Steiger 193  
NL-1351 AV Almere The Netherlands  
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## Dav Tronics

200 1543 Venables St  
Vancouver, BC Canada V5L 2G8  
604-255-2200  
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810-391-9200  
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Via Lisbona, 38  
I-35020 Camin-Padova Italy  
+39-49-8700588  
Fax: +39-49-8700747



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841 Baxter St #108  
Charlotte NC 28202  
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Fax: 704-377-6336

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Fax: +44(0)1811 5695510

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216 Little Falls Rd  
Cedar Grove NJ 07009  
201-857-8118  
Fax: 201-857-3756

## Deerfield Laboratory

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## Delta Designs

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Brea CA 92621  
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Designs URL: http://  
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703-354-3350; 800-833-5828  
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## Deltron Components

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London England NW10 6DN  
+44(0) 1819 655000

## Denecke Inc

5417 Cahuenga Blvd  
N Hollywood CA 91601  
818-766-3525; 800-866-3525

## The Denny Mfg Co Inc

3007 Dial St  
Mobile AL 36612  
334-457-2388  
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## Denon Electronics

222 New Road  
Parsippany NJ 07054  
201-575-7810  
Fax: 201-808-1608

## DesignCAD Inc

One American Way  
Pryor OK 74361-8802  
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3006 N Main, Logan UT 84321  
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817-473-7272; 800-292-2834  
Fax: 817-473-7712

## DH Satellite

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Prairie duChien WI 53821  
608-326-8406; 800-627-9443  
Fax: 608-326-4233

## Diamond SA

Via dei Patrizi 5  
CH-6616 Losone Switzerland  
+41 91 7854545  
Fax: +41 91 7854500

## DIC Digital

500 Frank Burr Blvd/Glenpoint Centre  
Teaneck NJ 07666  
201-692-7700; 800-328-1342  
Fax: 1201-692-7757

## Alan Dick & Co Ltd

The Barlands/London Road  
Cheltenham Glos England GL52 6UT  
+44(0) 1242 518500  
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3 London Road  
Farningham, Kent England DA4 0JP  
+44(0)1322-864855  
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## Digital Audio Labs

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www.digitalaudio.com

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Chessington, Surrey England KT9 2QL  
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14150 NE 20 St/Box 362  
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## Digital Research Corp

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205-837-9313; 800-310-5985  
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## Digital Vision (DV Sweden AB)

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516-667-6300

**DK-Audio**  
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DK-2730 Herlev Denmark  
+45-44-530-255  
Fax: +45-44-530-367

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NL-8300BA Emmeloord The Netherlands  
+31-5270-20-060  
Fax: +31-5270-16-396  
E-Mail: info@nda.nl

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Fax: +44(0) 1793 842101  
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Wide Web: <http://www.dolby.com/>

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+39-774-357400  
Fax: +39-774-375445

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Los Angeles CA 90068  
213-874-3411  
Fax: 213-874-3401

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Weesp The Netherlands  
+31 294 418014  
Fax: +31 294 416987

**Dranetz Technologies Inc**  
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908-287-3680; 800-DRANTEC  
Fax: 908-248-9240

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Fax: +44(0)1924-290-460

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508-435-3666  
Fax: 508-435-4243



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908-245-4833  
Fax: 908-245-0011

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Coventry England CV4 8HX  
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Fax: +44 (0) 1203-466501

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Hayes, Middlesex England UB3 3BA  
+44(0) 1818 13-5200  
Fax: +44(0) 1818 13-5022

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201-447-9365  
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214-423-3451; 800-473-3451  
Fax: 214-423-3297

**Duracell USA**  
Berkshire Corporate Park  
Bethel CT 06801  
203-796-4000; 800-548-5489  
Fax: 203-796-4187

**DVS GmbH/Digitale Videosysteme**  
Krepenstraße 8  
D-30165 Hannover Germany  
+49(0) 511 678070  
Fax: +49(0) 511 630070

**DW Electrochemicals Ltd**  
97 Newkirk Road N #3  
Richmond Hill Ont Canada L4C 3G4  
905-508-7500  
Fax: 905-508-7502

**DYMA Engineering**  
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Los Lunas NM 87031  
505-865-6700; 800-222-3962  
Fax: 505-865-6776

**DYNAIR Electronics Inc**  
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619-263-7711; 800-854-2831  
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**Dynatech Cable Products**  
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Salt Lake City UT 84116  
801-328-8872  
Fax: 801-328-3668

**Dynatech Tactical Communications**  
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Fax: 603-880-6965

**Dynatech Video Group**  
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Salt Lake City UT 84116  
801-328-8872; 800-637-6488  
Fax: 801-328-3668

**Dynatech Video Group**  
4750 Wiley Post Way  
Salt Lake City UT 84116  
801-575-8801; 800-453-8782  
Fax: 801-575-3299

**Dynaudio Acoustics UK Ltd**  
#21, Riverside Workshops, 28 Park St  
London England SE1 9EQ  
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Fax: 520-204-2568

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Fax: 208-467-9981

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**EAW (Eastern Acoustic Works)**  
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Fax: 617-273-3275

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Fax: 916-666-7760

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Fax: 416-754-3299  
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**EDAK**  
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407-242-2953; 800-462-8478  
Fax: 407-242-3430

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Fax: 216-292-1779

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High Wycombe  
Bucks England HP12 4JQ  
+44(0)1494-450414  
Fax: +44(0)1494-437591  
E-Mail: [jlmpor@dircon.co.uk](mailto:jlmpor@dircon.co.uk)

**EDX Engineering Inc**  
PO Box 1547  
Eugene OR 97440  
541-345-0019  
Fax: 541-345-8145  
E-Mail: <http://www.edx.com>

**EEG Enterprises Inc**  
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Farmingdale NY 11735  
516-293-7472  
Fax: 516-293-7417

**EELA Audio**  
Parmentierweg, 3  
NL 5657 EH Eindhoven The Netherlands  
+31-40-510484  
Fax: +31-40-570482

**EEV**  
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Elmsford NY 10523  
914-592-6050; 800-DIAL-EEV  
Fax: 914-682-8922

**EEV Ltd**  
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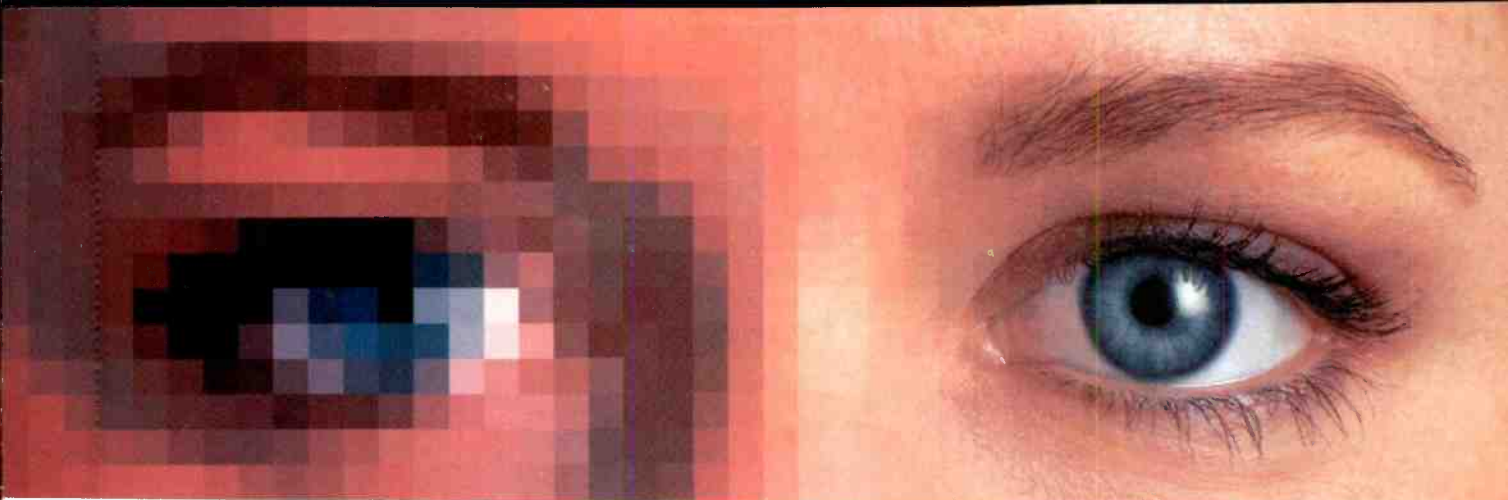
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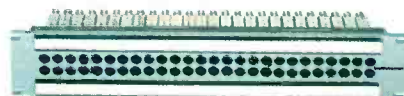
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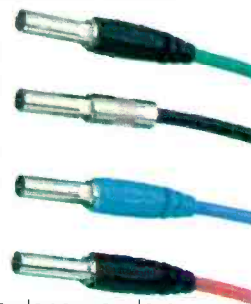
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Our video patch cords are available in popular lengths and colors - all built for efficient video signal transmission. Our patch cords come with rugged metal handles and optional rubber "boots" for a better grip. The "boots" offer enhanced flex relief and are available in your choice of colors - red, black, green or blue. Switchcraft is dedicated to making your studio time as productive as it can be.



So whether you're thinking video or audio components, think Switchcraft. We've always done wonders with sound. Now we can improve your image, too.

For more detailed information, phone or FAX our Marketing Communications Department and ask for New Product Bulletins 426 and 427.

Circle (11) on Reply Card

**Raytheon** Electronics

**Switchcraft**

Switchcraft, Inc.  
5555 North Elston Ave.  
Chicago, IL 60630  
(312) 631-1234  
FAX (312) 792-2129  
<http://www.raytheon.com/re/swc.html>



# Manufacturers Address Directory

**Graff Electronic Machines Ltd**  
Woodhill Road, Collingham  
Newark Notts England NG23 7NR  
+44(0)1636-893036  
Fax: +44(0)1636-893317

**Graham-Patten Systems**  
PO Box 1960  
Grass Valley CA 95945-1960  
916-273-8412; 800-422-6662  
Fax: 916-273-7458

**Graseby Optronics**  
12151 Research Pkwy  
Orlando FL 32826  
407-282-1408  
Fax: 407-273-9046

**Grass Valley Group**  
PO Box 1114  
Grass Valley CA 95945  
916-478-3000; 800-538-8878  
Fax: 916-478-3187  
E-Mail: <http://www.tek.com/Grass.Valley>



**Gray Engineering Labs Inc**  
504 W Chapman Ave #P  
Orange CA 92668  
714-997-4151

**Gray Supply Co**  
5204 Indianapolis Blvd  
East Chicago IN 46312-3838  
219-398-2362; 800-238-2244  
Fax: 219-398-0038  
E-Mail: [topbulb@aol.com](mailto:topbulb@aol.com)

**The Great American Market**  
826 N Cole Ave  
Hollywood CA 90038  
213-461-0200  
Fax: 213-461-4308

**Green Dot Audio**  
PO Box 290609  
Nashville TN 37229  
615-367-9242  
Fax: 615-367-9242

**Lynn Greenberg Electronic  
Teleprompting**  
24506 Thistle Court  
Newhall Ca 91321  
805-253-1987  
Fax: 805-253-3336

**Group One Ltd**  
80 Sea Lane  
Farmingdale NY 11735  
516-249-3662  
Fax: 516-753-1020

**Grozik Associates**  
PO Box 23422  
Milwaukee WI 53223  
414-355-4460  
Fax: 414-355-4460



**Hall Electronics**  
706 Rose Hill Drive  
Charlottesville VA 22901  
804-984-4255  
Fax: 804-984-3299  
E-Mail: [us@halls.com](mailto:us@halls.com)

**Halland Broadcast Services/Henry  
Eng**  
503 Key Vista Dr  
Sierra Madre CA 91024  
818-963-6300  
Fax: 818-963-2070

**Hallikainen & Friends Inc**  
141 Suburban Road Bldg E4  
San Luis Obispo CA 93401-6715  
805-541-0200  
Fax: 805-541-0201  
E-Mail: [hhallika@slonet.org](mailto:hhallika@slonet.org); <http://slonet.org/hhallika/>

**Hamlet Video**  
9204 Bond St  
Overland Park KS 66214  
913-492-4666; 800-331-2019  
Fax: 913-492-5556

**Hamlet Video International Ltd**  
Orchard House, Amersham Road  
Chesham Bucks England HP5 1NE  
+44(0) 1494 793763  
Fax: +44(0) 1494 791283

**Har-Ken Specialties**  
528 Chancellor Ave  
Irvington NJ 07111  
201-373-2762  
Fax: 201-373-9774  
E-Mail: [72305,1303@compuserve.com](mailto:72305,1303@compuserve.com)

**Hardigg Cases, A Div of Hardigg  
Industries Inc**  
PO Box 201 (147 N Main St)  
South Deerfield MA 01373  
413-665-2163; 800-542-7344  
Fax: 413-665-8061

**harmonia mundi acustia GmbH**  
In den Sigriestmatten 6  
D-79115 Freiburg Germany  
+49 (761) 491506  
Fax: +49 (761) 491842

**Harris Allied Broadcast-Canada**  
PO Box 5002  
St Laurent Que Canada H4L 4Z6  
416-731-3697; 800-269-6817  
Fax: 416-764-0729  
E-Mail: [rquesnel@harris.com](mailto:rquesnel@harris.com)

**Harris Corp/Broadcast Div  
(Harris Allied)**  
3200 Wismann Lane (PO Box 4290)  
Quincy IL 62305-4290  
217-222-8200  
Fax: 217-224-1439

**Harris Corp/Broadcast Div  
Systems Operation**  
7920 Kentucky Drive  
Florence KY 41042  
606-282-4800  
Fax: 606-283-2818

**Harrison by GLW**  
7104 Crossroads Blvd #118  
Brentwood TN 37027  
615-370-9001  
Fax: 615-3370-4906

**HAVE Inc**  
309 Power Ave  
Hudson NY 12534-2448  
518-828-2000; 800-999-HAVE (4283)  
Fax: 518-828-2008  
E-Mail: [haveinc@aol.com](mailto:haveinc@aol.com)

**HEDCO**  
920 Corporate Lane  
Chesapeake VA 23320  
804-548-2300; 800-231-9673  
Fax: 804-548-4088



**Henry Engineering**  
503 Key Vista Dr  
Sierra Madre CA 91024  
818-355-3656  
Fax: 818-355-0077  
**Sales Offices:**

**Hero Productions**  
7291 NW 74th St  
Medley FL 33166  
305-887-1600  
Fax: 305-887-7076

**HES Electronics**  
Vliegwezenlaan 10  
B-1731 Asse-Zellik Belgium  
+32 (2) 466-8180  
Fax: +32 (2) 466-9157

**Hewlett-Packard Co**  
E 24001 Mission  
Liberty Lake WA 99019  
509-921-3331



**Hewlett-Packard Co Video  
Communications Div**  
5301 Stevens Creek Blvd  
Santa Clara CA 95052-8059  
408-553-3945; 800-FOR-HPTV  
Fax: 408-553-3001  
E-Mail: [cmartino@sc.hp.com](mailto:cmartino@sc.hp.com)

**HHB Communications Ltd**  
73-75 Scrubs Lane  
London England NW10 6QU  
+44(0)181-962-5000  
Fax: +44(0)181-962-5050  
E-Mail: [sales@hbb.co.uk](mailto:sales@hbb.co.uk)

**Hipotonics Inc**  
Route 22 (PO Box 414)  
Brewster NY 10509  
914-279-8091; 800-727-4476  
Fax: 914-279-2467

**Richard Hirschmann GmbH**  
Oberer Paspelsweg 6-8  
A-6830 Rankweil-Brederis Austria  
+43-5522-307-520  
Fax: +43-5522-307-558

**Hitachi Denshi America Ltd**  
150 Crossways Park Drive  
Woodbury NY 11797  
516-921-7200  
Fax: 516-496-3718

**HM Electronics Inc**  
6675 Mesa Ridge Rd  
San Diego CA 92121  
619-535-6060  
Fax: 619-552-0139

**HN Telecom Inc**  
1160 Douglas Road  
Burnaby BC Canada V5C 4Z6  
604-294-3401  
Fax: 604-299-6712

**Holiday Industries Inc**  
14825 Martin Dr  
Eden Prairie MN 55344  
612-934-4920  
Fax: 612-934-3604

**Hoodman Corp**  
PO Box 816 (944 10th St)  
Hermosa Beach CA 90254  
310-379-6391  
Fax: 310-372-6420



**HORITA**  
PO Box 3993  
Mission Viejo CA 92690  
714-489-0240

Horita is a Southern California company focused on providing practical and economical editing equipment for the video industry. Horita offers a full line of SMPTE LTC and VITC readers, generators and inserters, and a PC-based time code tape logging system with the TC-Toolkit software. Horita also offers color bar, test, black and sync generators, video titlers and safe area/safe title generators, on-

screen line counter and line trigger out; GPS-based Master time code and sync generators and products to allow recording of GPS data on video locked with SMPTE time code. Products available in desktop, rack-mount and field packages. Versatile, affordable and easy to use. Horita provides ready support and service to the end user.

**Hotronic Inc**  
1875 S Winchester Blvd  
Campbell CA 95008  
408-378-3883  
Fax: 408-378-3888

**Howe Industries**  
2690 W Airport Blvd  
Sanford FL 32771  
407-323-1830  
Fax: 407-330-1317

**HPG Industries Inc  
(Sharb Electronics)**  
192-08 90th Ave  
Holts NY 11423-2524  
718-479-3011  
Fax: 718-479-3072

**Hubbell Inc Wiring Device - Kelleff**  
1613 State St  
Bridgeport CT 06605-0933  
203-337-3100  
Fax: 203-579-2892



**Hughes Communications Inc**  
PO Box 92424  
Los Angeles CA 90009  
310-607-4000  
Fax: 310-607-4065  
**Sales Offices:**

**Hughes & Phillips Inc**  
PO Box 2167 (2162 Union Place)  
Simi Valley CA 93062  
805-581-5591  
Fax: 805-581-5032



**Ice Crackers Inc**  
273 Circle Drive  
Springfield IL 62703  
217-529-8921; 800-747-8921

**ict GmbH**  
Erschekweg 1  
D-72664 Kohlberg Germany  
+49-7025-1020  
Fax: +49-7025-7111

**ict of North America**  
6649 Amory Ct #9  
Winter Park FL 32792  
407-677-8100  
Fax: 407-677-8229  
E-Mail: [ict@usa.pipeline.com](mailto:ict@usa.pipeline.com)

**IDB Communications & Broadcast  
Group**  
10525 W Washington Blvd  
Culver City CA 90232  
213-240-3710  
Fax: 213-240-3904

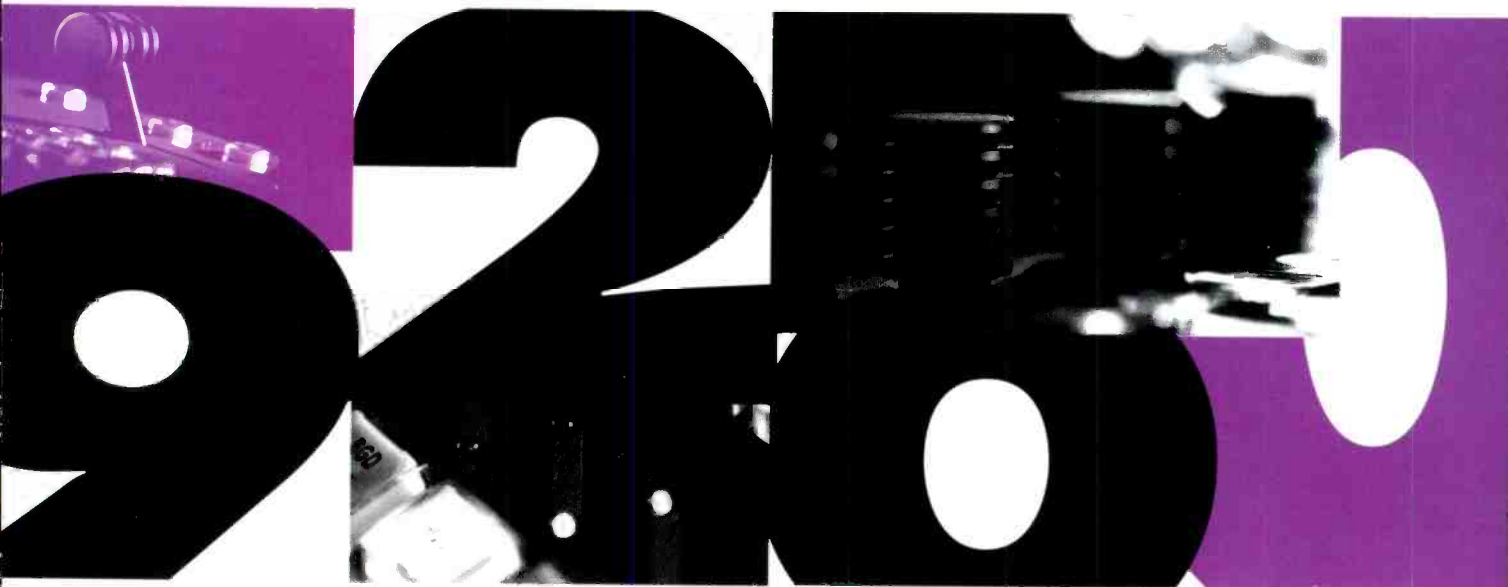
**I-Den Videotronics Inc**  
4-21-11 Takanawa, Minato-ku  
Tokyo Japan 108  
+81-3-3447-5220  
Fax: +81-3-3447-3440

**IDX Video Inc**  
1540 S Lyon St, Santa Ana CA 92705  
714-541-3460  
Fax: 714-541-3476

**IGM Communications**  
4041 Home Road  
Bellingham WA 98226  
360-733-4567  
Fax: 360-734-7939

The Product Directory begins on page 65.

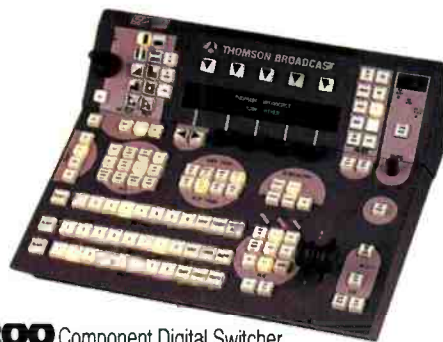
As the manufacturer which performed the world's first installation of a full digital studio back in 1985, THOMSON BROADCAST is proud to introduce the 9200, the newest member of its digital switcher family. This unit is the crowning achievement of a design team that boasts almost a



decade of experience in conceiving, manufacturing and delivering only component digital switchers. The 9200 is a compact 1M/E + DSK with functional innovations that blow away the standard limitations of switchers of this size : M/E or multilayer, video or key freeze, fluorescent display, double transition, input level correction, source memory Mem Box with keyframes and sequences, timeline control, 6 auxiliary busses, and more. Besides being feature-rich, the 9200 switcher is ergonomically designed and interfaces easily with existing equipment. THOMSON has funneled its years of experience to produce a powerful, innovative component digital switcher within an affordable package. We used our expertise to do the hard work, so you won't have to.

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**THOMSON BROADCAST SYSTEMS** - 17, rue du Petit Albi - BP 8244 - 95801 CERGY-PONTOISE Cedex - FRANCE - Tel: (33 - 1) 34 20 70 00 - Fax: (33 - 1) 34 20 70 47  
**USA - THOMSON BROADCAST SYSTEMS, Inc** - 49, Smith Street - PO Box 5266 - ENGLEWOOD - NJ 07631 - USA - Tel: (1 - 201) 569 1650 - Fax: (1 - 201) 569 1511  
**U.K - THOMSON BROADCAST SYSTEMS, Ltd** - 18, Horton Road - DATCHET - BERKSHIRE SL3 9ES - ENGLAND - Tel: (44 - 1753) 581 122 - Fax: (44 - 1753) 581 196  
**THOMSON BROADCAST SYSTEMS ASIA** - 1000 Toa Payoh North - SINGAPORE 1231 - Tel: (65) 359 8245 Fax: (65) 359 8206

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M/BAYE, GADIJGO & ASSOCIES



# Manufacturers Address Directory

## Ikegami Electronics (USA) Inc

37 Brook Ave  
Maywood NJ 07607  
201-368-9171  
Fax: 201-569-1626

## Ikegami Tsushinki Co Ltd

JS Progress 4-1-23 Heiwajima, Ohta-ku  
Tokyo Japan 143  
+81(0)3-5762-5111  
Fax: +81(0)3-5762-5110

## ILC Technology

399 Java Dr  
Sunnyvale CA 94089  
408-745-7900; 800-347-2474  
Fax: 408-744-0829

## illbruck inc

3800 Washington Ave N  
Minneapolis MN 55412  
612-520-3620; 800-662-0032  
Fax: 612-521-5639  
E-Mail: internet.74260.3430 @  
compuserve.com

## Image Design Film Technologies

8489 W 3rd St #1040B  
Los Angeles CA 90048  
213-655-7595  
Fax: 213-655-7728

## Image Devices Int'l

1825 NE 149th St  
Miami FL 33181  
305-945-1117  
Fax: 305-945-1117

## Image Logic Corp

6807 Brennon Lane  
Chevy Chase MD 20815  
301-907-8891  
Fax: 301-652-6584

## Image Video/Div of 1077541 Ontario

705 Progress Ave #46  
Scarborough, Ont. Canada M1H 2X1  
416-438-3940  
Fax: 416-438-8465  
E-Mail: ivideo@unicom.org

## Image Video Teleproductions Inc

6755 Freedom Ave NW  
North Canon OH 44720  
216-494-9303  
Fax: 216-966-1792

## Imagica Corp

5320 McConnell Ave  
Los Angeles CA 90066  
310-306-4180  
Fax: 310-305-7563

## Imagine Products Inc

581 S Rangeline Road #B-3  
Carmel IN 46032-2149  
317-843-0706  
Fax: 317-843-0807  
E-Mail: 73532.334@compuserve.com;  
imaginedev@aol.com;  
imagine.dev@applelink.com

## Imatex Communications Inc

1425 Rene Levesque #303  
Montreal QC H3G 1T7  
514-875-8680  
Fax: 514-875-8710  
E-Mail: info@imatex.com;  
ajanelle@imatex.com

## Indus-Tool

300 N Elizabeth St  
Chicago IL 60607  
312-226-2473; 800-662-5021  
Fax: 312-226-2480  
E-Mail: bird.x.inc@aol.com

## Industrial Acoustics Co

1160 Commerce Ave  
Bronx NY 10462  
718-931-8000  
Fax: 718-863-1138

## Industrial Computer Source

9950 Barnes Canyon Road  
San Diego CA 92121-2720  
619-677-0877; 800-523-2320  
Fax: 619-677-0615  
E-Mail: http://www.industry.net; email:  
industrial.computer@industry.net

## Industrial Strength Industries

15431 Blackburn Ave  
Norwalk CA 90650  
310-921-2341  
Fax: 310-802-1964

## Information Handling Services

15 Inverness Way/E MS GW 140  
Englewood CO 80150  
303-267-1434; 800-445-5890  
Fax: 303-486-1700

## Inline Inc

1901 E Lambert Road #110  
La Habra CA 90631  
310-690-6767; 800-882-7117  
Fax: 310-691-5247

## Innovative Technology Inc

15470 Flight Path Drive  
Brooksville FL 34609  
909-799-0713; 800-447-8877  
Fax: 904-796-0316

## Innovision Optics

1318 2nd St #31  
Santa Monica CA 90401  
310-394-5510  
Fax: 310-395-2941

## InnoVision Technology

1933 Davis St #238  
San Leandro CA 94577  
510-638-0800  
Fax: 510-638-6453

## Inovonics Inc

1305 Fair Ave  
Santa Cruz CA 95060  
408-458-0552; 800-733-0552  
Fax: 408-458-0554  
E-Mail: inovonics@aol.com

## Inscriber Character Generator

1131A Leslie St 6th Fl  
Toronto, Ont. Canada M3C 3L8  
416-391-4500  
Fax: 416-391-1999  
E-Mail: compuserve: 76371,2466

## Instant Replay

8290 NW 27th St #605  
Miami FL 33122  
305-593-2900; 800-749-8779  
Fax: 305-593-9050

## Instrumentation & Control Systems

520 Interstate Rd  
Addison IL 60101  
708-543-6200  
Fax: 708-543-6244

## Integrated Network Corp

757 Route 202/206  
Bridgewater NJ 08807  
908-218-1600; 800-241-EASY  
Fax: 908-218-0804  
E-Mail: info@integnet.com

## Intel Corp

8001 Terrace Ave  
Middleton WI 53562  
608-831-0880  
Fax: 608-831-1833  
E-Mail: intelix@fcs.msn.fullfeed.com

## Intelligent Resources

**Integrated Systems**  
3030 Salt Creek Lane #100  
Arlington Heights IL 60005-5000  
708-670-9388  
Fax: 708-670-0585

## Intellivideo Inc

42 Arrow Head Dr  
Stamford CT 06903  
203-322-1609  
Fax: 203-322-5613

## Intergraph Computer Systems

Huntsville AL 35894  
205-730-5441; 800-763-0242  
Fax: 205-730-9478  
E-Mail: http://www.intergraph.com

## Interlace Engineering Corp

109 Railside Road #300  
North York, Ont Canada M3A 1B2  
416-510-1051  
Fax: 416-510-1080

## International Datacasting Corp

3850 Holcomb Bridge Road #420  
Norcross GA 30092  
770-446-9684  
Fax: 770-448-6396

## International Electro-Magnetics/IEM

350 N Eric Drive  
Palatine IL 60067  
708-358-4622; 800-227-4323  
Fax: 708-358-4623

## Int'l Film & Television Workshops

2 Central St  
Rockport ME 04856  
207-236-8581  
Fax: 207-236-2558

## International Tapetronics Corp

PO Box 241  
Bloomington IL 61702-0241  
309-828-1381; 800-447-0414  
Fax: 309-828-1386

## Intervideo

PO Box 242  
Twin Peaks CA 92391  
909-337-7507  
Fax: 909-337-4307



## Intraplex Inc

3 Lyberty Way  
Westford MA 01886-3636  
508-692-9000  
Fax: 508-692-2200  
E-Mail: intraplex.com

## Iptek

2330 Faraday Ave  
Carlsbad CA 92008  
619-438-8362  
Fax: 619-438-2412  
E-Mail: iptek@tacan.com

## IPK Broadcast Systems

3 Darwin Close  
Reading, Berks England RG2 0TB  
+44(0)1734-311030  
Fax: +44(0)1734-313836

## IRIS Technologies Inc

Rt 12 Box 36, West Moreland Ind Park  
Greensburg PA 15601  
412-832-9855; 800-354-4747  
Fax: 412-832-8999

## IRP Professional Sound Products

111 Tower Lane, Bensenville IL 60106  
708-860-1993; 800-255-6993  
Fax: 708-860-1997

## IRT Electronics Pty Ltd

26 Hotham Parade  
Artarmon/Sydney Australia 2064  
+61 2 4393744  
Fax: +61 2 439 7439

## IRTE Spa

Via Pompei, 35  
I-21013 Gallarte VA Italy  
+33 1 797286  
Fax: +33 1 776082

## ISC Datacom

1217 Digital Drive  
Richardson TX 75081  
214-234-2691  
Fax: 214-234-5480

## Island Cases

1121-20 Lincoln Ave  
Holbrook NY 11779  
516-563-0633; 800-343-1433  
Fax: 516-563-1390

## ISS Engineering Inc

992 San Antonio Road  
Palo Alto CA 94025  
415-424-0380; 800-227-6288  
Fax: 415-424-0405

## Italiana Ponti Radio Srl

Via Salvore 20  
I-21100Varese Italy  
+39 332-284093  
Fax: +39 332-283390

## ITELCO SpA

Via Dei Mercari Zona Ind Serracavallo  
I-05019 Orvieto (TR) Italy  
+39-763-316231  
Fax: +39-763-316236

## ITI Electronics Inc

12 Kulick Rd, Fairfield NJ 07004  
201-882-6405  
Fax: 201-882-6409

## ITIS

Centre Espace Performance Bat C1  
F-35769 Saint Gregoire France  
+33-9923-7220  
Fax: +33-9923-1091

## ITS Corp

375 Valley Brook Road  
McMurray PA 15317-3345  
412-941-1500  
Fax: 412-941-4603

## Ivie Technologies Inc

1366 W Center St  
Orem UT 84057  
801-224-1800  
Fax: 801-224-7526



## James Grunder & Associates Inc

9204 Bond St  
Overland Park KS 66214  
913-492-4666; 800-331-2019  
Fax: 913-492-5556



## Jampro Antennas Inc

6340 Sky Creek Drive  
Sacramento CA 95828  
916-383-1177  
Fax: 916-383-1182

E-Mail: jampro@broadcast.net

**Jampro Antennas Inc** is the oldest broadcast antenna company in the USA with over 40 years of experience in providing broadcast antennas and RF systems. Jampro offers completely integrated RF broadcast systems, including FM, UHF, VHF and MMDS antennas, combiners, filters, and LPTV wireless cable and associated diplexers, hybrids, patch panels and MMDS transmit equipment. Jampro manufactures a complete line of rigid coaxial transmission line and related components. Innovative engineering, expert manufacturing, and attention to detail make Jampro the leader for all your broadcast needs.

## Jason Electronics

3149 E Desert Inn Road #94  
Las Vegas NV 89121  
702-791-3394

## JBL Professional

8500 Balboa Blvd  
Northridge CA 91329  
818-894-8850  
Fax: 818-830-1220

## Jefferson-Pilot Data Services

785 Crossover Lane #141  
Memphis TN 38117  
901-762-8000  
Fax: 901-762-8038

## Jelmax Co Ltd

DIK Building 6-5-4 Shimbashi Minato-ku  
Tokyo Japan 105  
+81-3-3436-4568  
Fax: +81-3-3831-8447

## Jem-Fab Corp

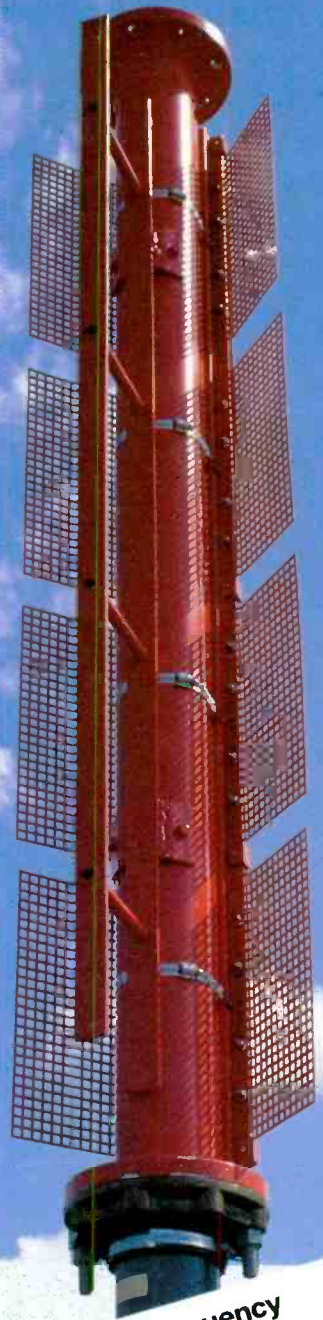
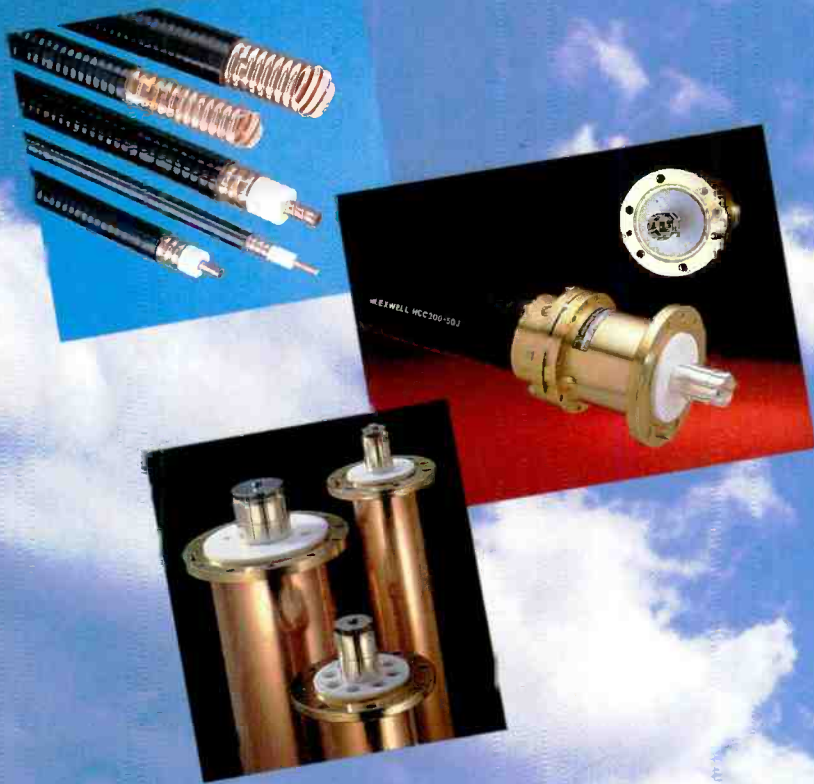
PO Box 572  
Moyock NC 27958  
919-435-6179  
Fax: 919-435-6179

## Jensen Tools Inc

7815 S 46th St  
Phoenix AZ 85044  
602-968-6231; 800-426-1194  
Fax: 602-438-1690

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- STL microwave parabolic antennas
- FLEXWELL® coaxial cables, elliptical waveguides, and rigid transmission lines
- FLEXWELL® radiating cables
- Coaxial cable and elliptical waveguide R.F. connectors
- Installation accessories
- Pressurization equipment



**Radio Frequency  
Systems, Inc.**  
Cablewave Systems Division

**Cablewave Systems**

60 Dodge Ave.  
North Haven, CT 06473  
☎ (203) 239-3311  
FAX (203) 234-7718



# Manufacturers Address Directory

**Jensen Transformers Inc**  
7135 Hayvenhurst Ave  
Van Nuys CA 91406  
213-876-0059/818-374-5857  
Fax: 818-763-4574

**JFW Industries**  
5134 Commerce Square Drive  
Indianapolis IN 46237  
317-887-1340  
Fax: 317-881-6790

**JK Audio**  
2701 N 45th Road  
Sandwich IL 60548  
815-786-2929  
Fax: 815-786-8502

**J-Lab**  
PO Box 6530  
Malibu CA 90264  
310-457-4090  
Fax: 310-457-4494

**JLCooper Electronics**  
12500 Beatrice St  
Los Angeles CA 90066  
310-306-4131  
Fax: 310-822-2252

**JMS & Associates Inc**  
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Cincinnati OH 45202  
513-621-9292; 800-360-9229  
Fax: 513-651-9622

**JNS Electronics Inc**  
PO Box 32550  
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408-729-3838  
Fax: 408-926-1003

**Johnson Measurement Service**  
3497 Cornwall Drive NW  
Canton OH 44702  
216-477-0635

**JoLida Inc**  
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Annapolis Junction MD 20701  
301-953-2014; 800-783-2555  
Fax: 301-498-0554

**Joslyn Electronic Systems Corp**  
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Fax: 805-968-2335

**JRF Magnetic Sciences Inc**  
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Greendell NJ 07839  
201-579-5773  
Fax: 201-579-6021

**JT Communications**  
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Ocala FL 34470-1421  
904-236-0744  
Fax: 904-236-5130

**Junger Audio**  
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D-12489 Berlin Germany  
+49-30-6392-6145  
Fax: +49-30-6392-6146

**JVC Professional Products Co**  
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201-794-3900; 800-582-5825  
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**JVC Victor Company of Japan Ltd**  
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**K**

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Burnsville MN 55337-1279  
612-890-0609; 800-328-2278  
Fax: 612-882-4500  
E-Mail: P.Sappanos@Kavouras.com

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Fax: 201-628-6363

**Kay Industries Inc**  
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412-572-2700; 800-535-4242  
Fax: 415-572-9675

**Keystone Communications**  
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801-322-4400; 800-752-2666  
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717-655-7143  
Fax: 717-654-5765

**Keystone Metal Products Inc**  
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**Kezvale Ltd**  
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**Killer Tracks**  
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213-957-4455  
Fax: 213-957-4470

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+44(0) 181 386-1001  
Fax: +44(0) 181 953-1118

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914-793-5000  
Fax: 914-793-5092

**KINTEK Inc**  
224 Calvary St  
Waltham MA 02154  
617-894-6111  
Fax: 617-647-4235

**Kintronic Labs Inc**  
PO Box 845  
Bristol TN 37621-0845  
423-878-3141  
Fax: 423-878-4224  
E-Mail: kintronic@delphi.com

**Kirchner Elektronik**  
Wendenstraße 53  
D-38100 Braunschweig Germany  
+49-531-464-12  
Fax: +49-531-464-12

**Klark Teknik**  
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Buchanan MI 49107  
616-695-4750; 800-695-1010  
Fax: 616-695-0470  
E-Mail: Compuserve Midi B Forum

**Kline Towers**  
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Columbia SC 29202  
803-251-8000  
Fax: 803-251-8099

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301-840-5805  
Fax: 301-840-2946

**Kobold Licht/Beleuchtungstechnik**  
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D-82515 Wolfratshausen Germany  
+49(0)8171-7081  
Fax: +49(0)8171-20367

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916-421-1637  
Fax: 916-421-1637

**Koss Corp**  
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Milwaukee WI 53212  
414-964-5000; 800-USA-KOSS

**Koto Luminous Corp**  
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1-4-8 Ueno Taito-Ku  
Tokyo Japan  
+81 3 3839-1151  
Fax: +81 3 3837-4720

**Kowa Optimed Inc**  
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Torrance CA 90502  
310-327-1913; 800-966-5692  
Fax: 310-327-4177

**KR Electronics Inc**  
91 Avenel St  
Avenel NJ 07001  
908-636-1900  
Fax: 908-636-1982

**Kramer Electronics**  
76 Fredrick St  
Hackensack NJ 07602  
201-487-8480  
Fax: 201-487-8399

**KRK Monitoring Systems**  
16462 Gothard St #0  
Huntington Beach CA 92647  
714-841-1600  
Fax: 714-375-6496

**Ron Krob Technical Consultant**  
4910 Four Star Court  
Fort Collins CO 80524  
970-484-2704

**KUB Systems**  
1181-E Chess Drive  
Foster City CA 94404  
415-572-6140  
Fax: 415-572-6155  
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Stone Mountain GA 30087  
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714-770-6601  
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**Lamp Technology**  
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Bohemia NY 11716  
516-567-1800; 800-533-7548  
Fax: 516-567-1806  
E-Mail: lamptech@parux.com

**Lance Industries**  
13001 Bradley Ave  
Sylmar CA 91342-3832  
818-367-1811  
Fax: 818-362-3594

**Larcant-TTC Inc**  
650 S Taylor Ave  
Louisville CO 80027  
303-665-8000  
Fax: 303-673-9900

**Laurentel Systems Inc**  
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Monfort PQ Canada J0T 1Y0  
514-226-8694; 514-226-3847  
Fax: 514-226-3847

**Lawo Geratebau GmbH**  
Am Oberwald 8  
Rastatt Germany D-76437  
+49-7222-1002-0  
Fax: +49-7222-1002-24

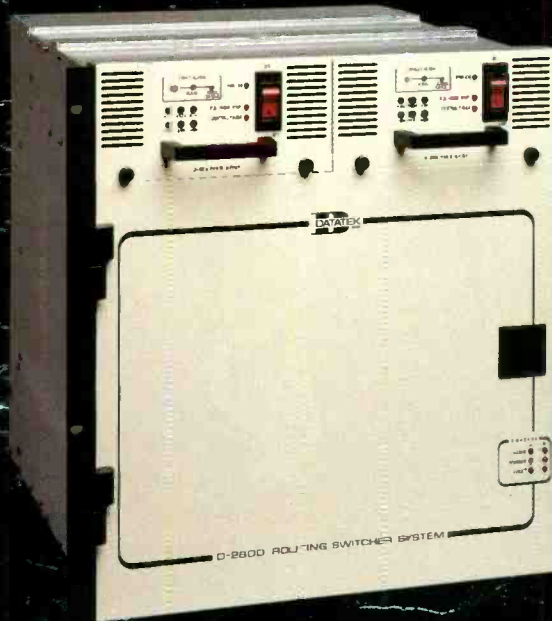
**Lazerus**  
PO Box 13249  
Oakland CA 94661  
510-339-6263  
Fax: 510-339-6263

**LBA International**  
PO Box 8026  
Greenville NC 27835-8026  
919-757-0279; 800-522-4464  
Fax: 919-752-9155

**LBA Technology Inc**  
PO Box 8026  
Greenville NC 27835-8026  
919-757-0279; 800-522-4464  
Fax: 919-752-9175

**LDL Communications Inc**  
1440 Cherry Lane Court #201  
Laurel MD 20707  
301-498-2200  
Fax: 301-498-7952

**LEA Dynatech**  
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2-6-33 Tsunashima-Higashi, Kohokuku  
Yokohama Japan 223  
+81(0)45 541-2123  
Fax: +81(0)45 544-1280

**Leader Instruments (Europe) Ltd**  
Raglan House, 8-24 Stoke Rd., Slough  
Berkshire England SL2 5AG  
+44(0) 1753-538022  
Fax: +44(0) 1753-538528

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Fax: 516-231-5295

**LeBlanc & Royle Telcom Inc**  
514 Chartwell Road, Box 880  
Oakville ON Canada L6J 5C5  
905-844-1242  
Fax: 905-844-1837

**Lectrosomics Inc**  
581 Laser Road NE  
Rio Rancho NM 87124  
505-892-4501; 800-821-1121  
Fax: 505-892-6243

**Ledtronics Inc**  
4009 Pacific Coast Highway  
Torrance CA 90505  
310-534-1505  
Fax: 310-534-1424

**Lee Dan Communications Inc**  
155 Adams Ave  
Hauppauge NY 11788-3699  
516-231-1414; 800-231-1414  
Fax: 516-231-1498

**Lee Filters Ltd**  
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Andover Hants England SP10 5AN  
+44(0)1264-66245  
Fax: +44(0)1264-55058

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**Leightronix Inc**  
2330 Jarco Dr  
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517-694-8000  
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416-445-9640  
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**Lemo USA**  
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707-578-8811; 800-444-5366  
Fax: 707-578-0869  
E-Mail: lemo@indirect.com

**Blaine Lentz Lighting Assoc**  
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Woodland Hills CA 91367  
818-887-7148  
Fax: 818-887-4472

**Leonetti Company**  
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213-469-2987; 800-786-7291  
Fax: 213-469-9223

**Leprecon/CAE Inc**  
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Hamburg MI 48139  
810-231-9373  
Fax: 810-231-1631

**Lexicon Inc**  
100 Beaver St  
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617-736-0300  
Fax: 617-891-0340

**Liebert Corp**  
9650 Jeromino Road  
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714-457-3600  
Fax: 714-457-3788

**Light Wave Systems**  
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Van Nuys CA 91402  
818-780-3002  
Fax: 818-780-3992

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Fax: 416-259-4758

**Lighthouse/A Sundance Systems Co**  
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Grass Valley CA 95945  
916-272-8240  
Fax: 816-272-8248

**Lighthouse Digital Systems**  
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Fax: 805-257-6197

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Fax: 815-458-3057

**Lightning Eliminators & Consultants**  
6687 Arapahoe Rd  
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303-447-2828  
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**Lightning Master Corp**  
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Clearwater FL 34625  
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**Lightning Prevention Systems**  
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Berlin NJ 08009  
609-767-7209

**Lighttech Group Inc**  
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**Lightware Inc**  
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303-744-0202  
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**Lightwave Communications Inc**  
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203-878-9838  
Fax: 203-874-0157

**Lightwave Systems**  
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214-741-5142  
Fax: 214-741-5145

**Lightworks/USA**  
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Hollywood CA 90038  
213-465-2002  
Fax: 213-463-1209

**Lindsay Specialty Products**  
50 Mary St  
Lindsay ON Canada K9V 457  
705-324-2196; 800-465-7046  
Fax: 704-324-5474

**Link Communications SA**  
La Vinya 33  
E-08041 Barcelona Spain  
+34 (3) 347-1033  
Fax: +34 (3) 347-2255

**Link Electronics Inc**  
753 Enterprise St  
Cape Girardeau MO 63701  
314-334-4433; 800-776-4411  
Fax: 314-334-9255

**Linker Systems Inc**  
13612 Ohkayha, Irvine CA 92720  
714-552-1904  
Fax: 714-552-6985

**Lipsner-Smith Co**  
4700 Chase Ave  
Lincolnwood IL 60646  
708-677-3000; 800-323-7520  
Fax: 708-677-1311  
E-Mail: Tom.Tisch@Lipsner-Smith.com

**Peter Lisand Corp**  
352 River Road, Edgewater NJ 07020  
201-943-5600  
Fax: 201-943-6913

**Listec Video Corp**  
40 Oser Ave #3  
Hauppauge NY 11788-3800  
516-273-3020  
Fax: 516-435-4544  
E-Mail: listec@linet.com

**Litton/LSD**  
2734 Hickory Grove Road/PO Box 4508  
Davenport IA 52808  
319-383-6000  
Fax: 319-383-6125

**James Lloyd Group**  
PO Box 3, Ashland OR 97520  
541-488-1405  
Fax: 541-488-5627

**LM Engineering Inc**  
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Fax: 516-273-7119  
E-Mail: bebg@lnr.com

**Logitek Electronic Systems Inc**  
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713-782-4592; 800-231-5870  
Fax: 713-782-7597

**Loma Scientific International**  
3115 Kashiwa St  
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310-539-8655  
Fax: 310-539-8634

**Lone Wolf Corp**  
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Seattle WA 98121  
206-728-9600  
Fax: 206-728-9604

**Mark Long Enterprises Inc**  
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954-767-4687  
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**Loral Microwave-Narda**  
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Hong Kong ..... +852-485-3898  
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New Zealand ..... +64 9 307-3901  
Ontario Canada ..... 416-251-3355  
Sydney Australia ..... +61 2 417-1111

**Lowel-Light Mfg Inc**  
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Fax: 718-921-0303

**LPB Inc**  
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Frazer PA 19355  
610-644-1123  
Fax: 610-644-8651  
E-Mail: lpbinc@aol.com

**LTM Corp of America**  
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Sun Valley CA 91352  
818-767-1313; 800-762-4291  
Fax: 818-767-1442

**Lucasey Mfg Corp**  
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Oakland CA 94601  
510-534-1435; 800-LUCASEY  
Fax: 510-534-6828

**Lumitrol Ltd**  
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416-424-4284  
Fax: 416-424-4682

**Lundahl Transformers**  
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S-76150 Norrtälje Sweden  
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Fax: +46-176-139-35

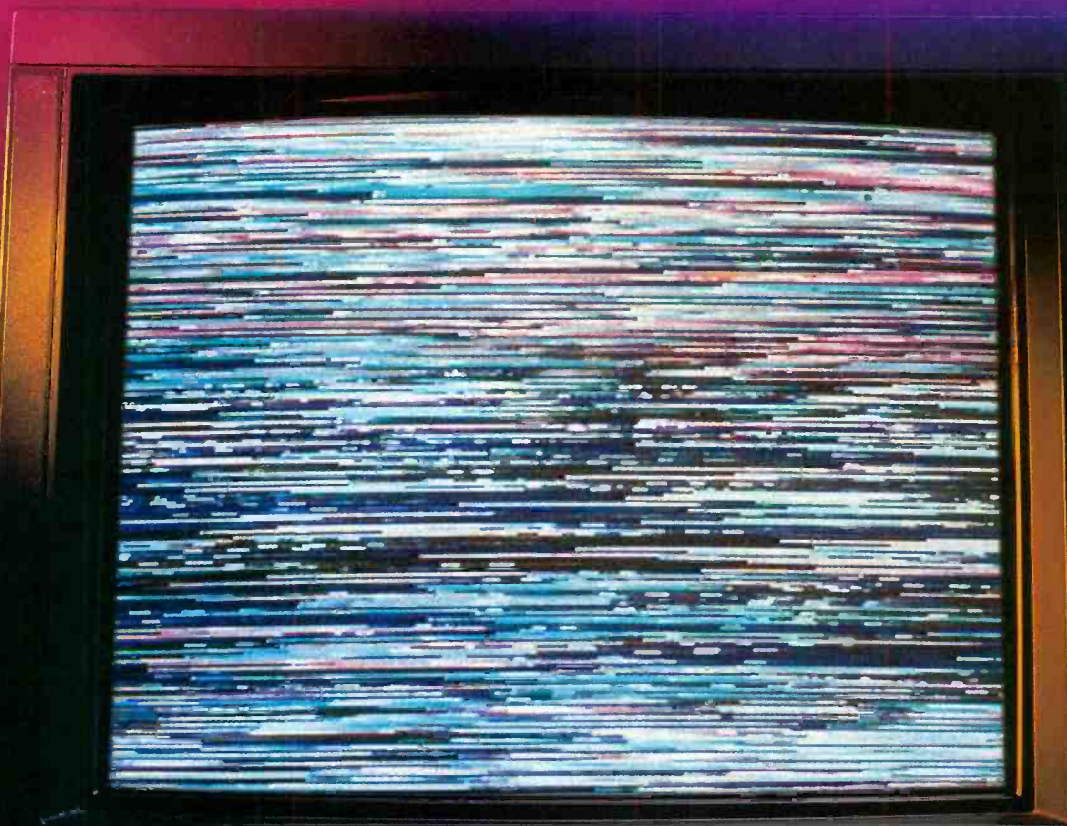
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Waukegan IL 60087  
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Fax: 708-244-1818

**L-W Athena Inc**  
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805-522-3284  
Fax: 805-522-3316

**Lyncole XIT Grounding**  
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Continued from page 32

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DK-2740 Skovlunde Denmark  
+45 4453 2522  
Fax: +45 4453 5335

## LYS Electronic DTDA

rua Saturno 45  
Rio De Janeiro Brazil 21240-150  
+55 (21) 372-3123  
Fax: +55 (21) 371-6124



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Lowell MA 01851  
508-453-3100; 800-366-2266  
Fax: 508-656-2740

## M C Lights & Mfg

165 Saunders Road  
Barrie ON Canada L4M 6E7  
705-739-7886  
Fax: 705-739-1067  
E-Mail: mclights@barint.on.ca

## Mackie Designs Inc

16220 Wood-Red Road  
Woodinville WA 98072  
206-487-4333; 800-258-6883  
Fax: 206-487-4337



## Macrovision Corp

1341 Orleans Drive  
Sunnyvale CA 94089  
408-743-8600  
Fax: 408-743-8622  
E-Mail: whit@macrovision.com;  
belomin@macrovision.com

## Sales Offices:

### Magic Teleprompting Inc

1390 Waller St  
San Francisco CA 94117  
415-626-5283; 800-646-MAGIC  
Fax: 415-626-2762  
E-Mail: darshank@aol.com

### Magnavox

2829 Maricopa St  
Torrance CA 90503  
310-618-7046; 800-482-0432  
Fax: 310-618-7001

### Magni Systems

9500 SW Gemini Dr  
Beaverton OR 97008-7161  
503-626-8400; 800-237-5964  
Fax: 503-626-6225

### Magnum Towers Inc

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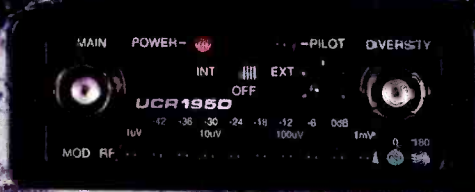
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Fax: 504-367-6754  
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408-370-3505  
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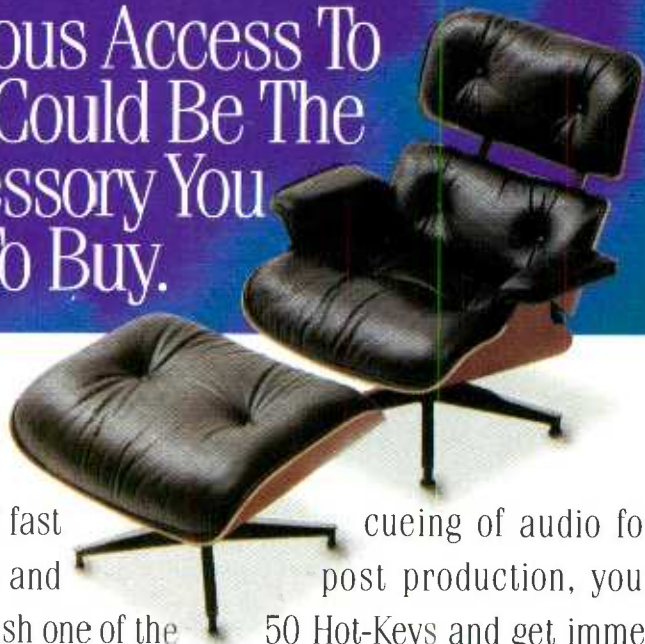
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301-598-2357  
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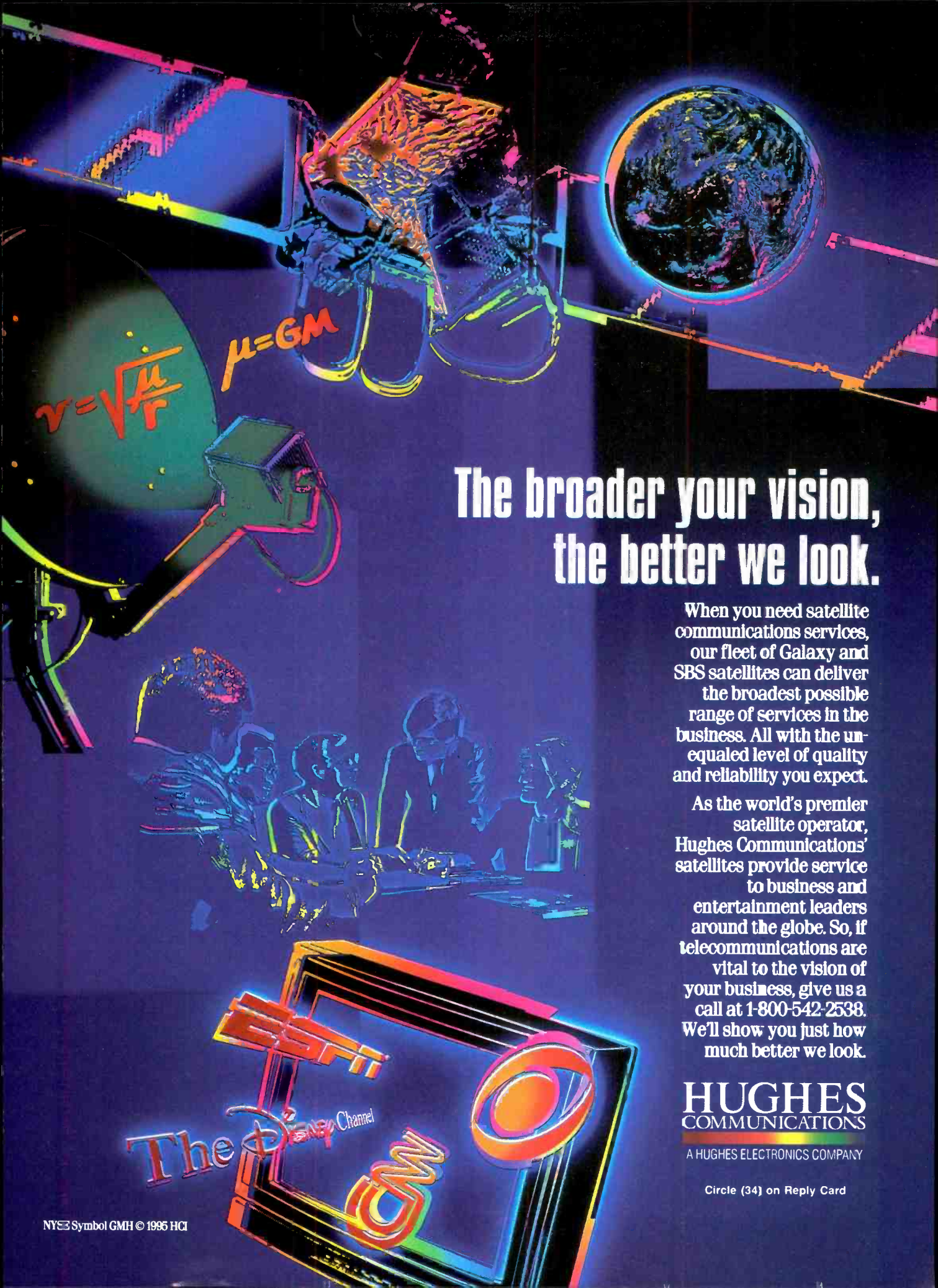
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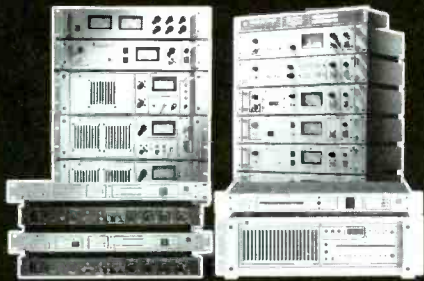
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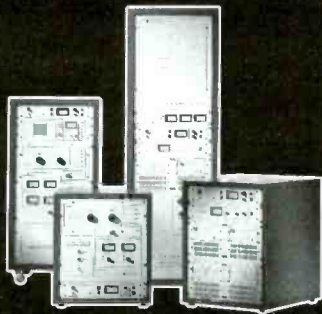
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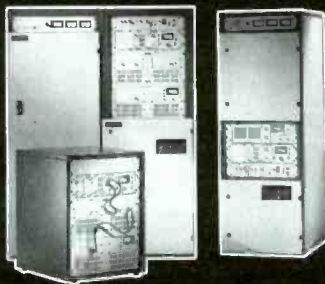
# DB Elettronica the name of quality.



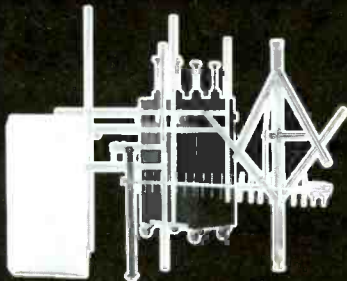
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# Manufacturers Address Directory

### QSC Audio Products Inc

1675 MacArthur Blvd  
Costa Mesa CA 92626  
714-754-6175; 800-854-4079  
Fax: 714-754-6174  
E-Mail: 76702.2635@compuserve.com;  
john\_subbiondo@qscaudio.com

### QSI Systems Inc

7-B Raymond Ave #8 (PO Box 718)  
Salem NH 03079  
603-893-7707  
Fax: 603-893-7714

### QTV

104 E 25th St, New York NY 10010  
212-460-9050  
Fax: 212-529-9679

### Quanta Corp - Dynatech

180 Wright Brothers Drive #670  
Salt Lake City UT 84116  
801-328-8872; 801-637-6488  
Fax: 801-328-3668



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### Quintel Inc

85 Old Kings Highway N  
Darien CT 06820  
203-656-3100  
Fax: 203-656-3459

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CA Los Angeles ..... 213-962-6198  
Canada Richmond Hill ON 416-771-9727  
GA Atlanta ..... 404-457-1266  
IL Chicago ..... 312-380-6080  
MI Farmington Hills ..... 313-553-0670  
NY New York ..... 212-977-4877  
TX Irving ..... 214-751-1818

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Turnpike Road  
Newbury, Berkshire England RG14 2NE  
+44(0) 1635-48222  
Fax: +44(0) 1635-35895

### Questar Systems Inc

1800 Water Place #100  
Atlanta GA 30339  
770-956-0700; 800-736-0956  
Fax: 770-956-8781

### Questech

Eastheath Ave  
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+44(0)1734-787209  
Fax: +44(0)1734-794766  
E-Mail: compuserve 100273,3024

### Quickset International Inc

3650 Woodhead Drive  
Northbrook IL 60062-1258  
708-498-0700; 800-247-6563  
Fax: 708-498-1258

### Qutron

PO Box 105, Allendale NJ 07401  
201-327-3259; 800-354-5971u  
Fax: 201-818-1963



### Racal Decca Canada Ltd

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Mississauga Ont Canada L4T 2H5  
905-457-8720  
Fax: 905-405-1150

### Racon Inc

10816 37th Ave SW  
Seattle WA 98168  
206-241-1110; 800-426-5245  
Fax: 206-246-9306

### Radamec EPO Ltd

Bridge Road  
Chertsey, Surrey England KT16 8LJ  
+44(0)1932-561181  
Fax: +44(0)1932-568836  
E-Mail: RadamecEpo@Delphi.com

### Radamec Inc

1916 Mary Ellen Lane  
Scotch Plains NJ 07076  
918-518-0685  
Fax: 908-518-0687  
E-Mail: radamecinc@delphi.com

### Radiation Systems/Mark Antennas

1757 S Winthrop Drive  
Des Plaines IL 60018  
708-298-9420  
Fax: 708-635-7946

### Radio Computing Services/RCS

2 Overhill Road #100  
Scarsdale NY 10583  
914-723-8567  
Fax: 914-723-6651

### Radio Design Labs

8025 8th St (PO Box 1286)  
Carpinteria CA 93014  
805-684-5415; 800-281-2683  
Fax: 805-684-9316

### Radio Express

3575 Cahuenga Blvd W #390  
Los Angeles CA 90068  
213-850-1003  
Fax: 213-874-7753

### Radio Systems Inc

601 Heron Drive (PO Box 458)  
Bridgeport NJ 08014-0458  
609-467-8000  
Fax: 609-467-3044

### Radiotechniques Engineering Corp

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609-546-8008; 800-484-7447  
Fax: 609-546-1841

### Ram Broadcast Systems

PO Box 3100  
Barrington IL 60011-3100  
708-382-7575; 800-779-7575  
Fax: 708-382-8818

### RAMI

Rocade de la Croix  
F-77600 Bussy St Georges France  
+33-1-6466-2020  
Fax: +33-1-6466-2030

### Ramko Research

4261 B Sunset Lane  
Shingle Springs CA 95682  
916-672-7932; 800-678-1357  
Fax: 916-672-7938

### Rane Corp

10802 47th Ave W  
Mukilteo WA 98275  
206-355-6000  
Fax: 206-347-7757

### Rangertone Research

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Belleville NJ 07109  
201-751-6833  
Fax: 201-751-9741

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Ware, Herts England SG12 0AE  
+44(0) 1920-463939  
Fax: +44(0) 1920-460803

### Rank Cintel

Valencia CA 91355  
805-294-2310  
Fax: 805-294-1019

### Rapco International

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Fax: 770-975-8915  
E-Mail: CIS@74347.2677;  
RRathbon@ix.netcom.com

**Raytheon Semiconductors**  
4243 Campus Point Ct  
San Diego CA 92121-1513  
408-522-7068  
Fax: 408-522-7055

**RCA Broadcast/GE Support Services**  
158 Gaither Drive  
Mount Laurel NJ 08054  
609-866-3147  
Fax: 609-866-3146

**RCI Systems Inc**  
5615 Fishers Lane  
Rockville MD 20852  
301-984-1800  
Fax: 301-984-6175

**R-Columbia Products Co Inc**  
2008 St Johns Ave  
Highland Park IL 60635  
708-432-7915  
Fax: 708-432-9181

**RCS/Radio Computing Systems**  
2 Overhill Road #200  
Scarsdale NY 10583  
914-723-8567  
Fax: 914-723-6651

**RE**  
Emdrupvej 26  
DK-2100 Copenhagen Denmark  
+45 3917-0000  
Fax: +45 3917 0010

**RE America Inc**  
31029 Center Ridge Rd  
Westlake OH 44145  
216-871-7617  
Fax: 216-871-4303  
E-Mail: name@reamerica.com

**RE Holding A/S**  
Emdrupvej 26  
Copenhagen Denmark DK-2100  
+45-39-17-0000  
Fax: +45-39-17-0010  
E-Mail: support@re.dk

**Rea Electronics**  
540 W Broad St  
Columbus OH 43215  
614-221-5170  
Fax: 614-221-8898

**Reach Electronics Inc**  
PO Box 308  
Lexington NE 68850-0308  
308-324-6661; 800-445-0007  
Fax: 308-324-4985

**Rean Products**  
16 Passaic Ave Bldg  
Fairfield NJ 07004  
201-808-0063  
Fax: 201-808-6517

**Re'An Products**  
Springhead Enterprise Park  
Northfleet England DA11 8HB  
+44(0)1474-328-807  
Fax: +44(0)474-320-285

**Recognition Concepts Inc**  
5200 Convoir Dr  
Carson City NV 89706  
702-882-7817; 800-243-8724  
Fax: 702-882-5381  
E-Mail: rcisales@aol.com

**Recortec Inc**  
1290 Lawrence Station Road  
Sunnyvale CA 94089-2220  
408-734-1290; 800-729-7654  
Fax: 408-734-2140

**Rees Associate Inc**  
3817 NW Expressway #500  
Oklahoma City OK 73112  
Fax: 942-7337

**Register Data Systems**  
404 Gen Hodges Blvd (PO Box 980)  
Perry GA 31069  
912-987-2501; 800-521-5222  
Fax: 912-987-7595

**Reliance Comm/Tec**  
PO Box 17438, Cleveland OH 44117  
800-245-4501

**Reliance Plastics & Packaging**  
217 Brook Ave, Passaic NJ 07055  
201-473-7200; Fax: 201-473-1023

**Renkus-Heinz Inc**  
17191 Armstrong Ave, Irvine CA 92714  
714-250-0166  
Fax: 714-250-1035

**RF Industries**  
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619-549-6340; 800-233-1728  
Fax: 619-549-6345

**RF Plante**  
rua Magalhaes Castro 170  
Rio de Janeiro 20961-020  
+55 21 481-3347  
Fax: +55 21 581-4286

**RF Technology Inc**  
16 Testa Place  
South Norwalk CT 06854  
203-866-4283; 800-762-4369  
Fax: 203-853-3513

**RGB Computer & Video**  
4152 Blue Heron Blvd W #118  
Riviera Beach FL 33404  
407-844-3348; Fax: 407-844-3699

**RGB Spectrum**  
950 Marina Village Parkway  
Alameda CA 94501  
510-814-7000; Fax: 510-814-7026

**Richmond Sound Design Ltd**  
1234 W 6th Ave  
Vancouver BC Canada V6H 1A5  
604-664-5860; 800-664-5861  
Fax: 604-732-1234  
E-Mail: kbelle@acs.vcalgary.ca

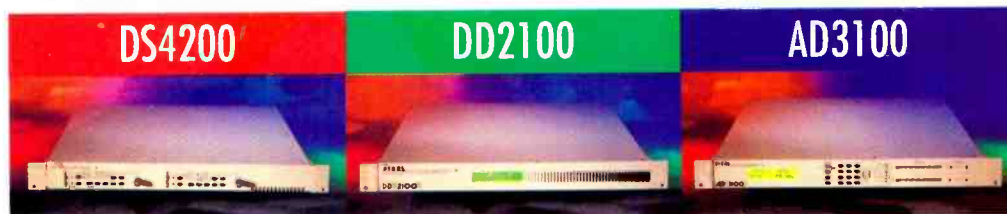
**Ringwood Associates Ltd**  
6F Caxton Trading Est  
Printing House Lane  
Hayes Middx England UB3 1BE  
+44 (0) 181 561-5949  
Fax: +44 (0) 181 561-1122

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E-Mail: email: mfennell@riptie.com; web  
site: http://www.riptie.com

**Riser-Bond Instruments**  
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D-81614 München Germany  
+49(0) 89-41292321  
Fax: +49(0) 89-41293396

**ROHN**  
PO Box 2000, Peoria IL 61656  
309-697-4400; 800-225-7646  
Fax: 309-697-5612

**Roland Pro Audio**  
7200 Dominion Circle  
Los Angeles CA 90040  
213-685-5141; Fax: 213-726-3267

**Roll-A-Reel Co**  
PO Box 37381, Cincinnati OH 45222  
513-761-8500  
Fax: 513-761-9997

**Rorke Data Inc**  
9700 W 76th St, Eden Prairie MN 55344  
612-829-0300; 800-328-8247  
Fax: 612-829-0988

**Rosco Labs Inc**  
36 Bush Ave, Port Chester NY 10573  
914-937-1300; Fax: 914-937-5984

**Rosner Television Systems Inc**  
17 Mitchell Dr, Kings Point NY 11024  
516-466-4172  
Fax: 516-466-4172

**Ross Video Ltd**  
PO Box 220/8 John St  
Iroquois Ont Canada K0E 1K0  
613-652-4886  
Fax: 613-652-4425

**RPG Diffusor Systems Inc**  
651-C Commerce Drive  
Upper Marlboro MD 20772  
301-249-0044; Fax: 301-249-3912

**RTI-Research Technology Int'l**  
4700 Chase Ave  
Lincolnwood IL 60646  
708-677-3000; 800-323-7520  
Fax: 708-677-1311  
E-Mail: rti.us.com

**RTW: Radiotechnische Werkstätten GmbH**  
Elbeallee 19  
D-50765 Köln Germany  
+49(0)221-709-1333  
Fax: +49(0)221-709-1332

**Ruslang Corp**  
320 Dewey St, Bridgeport CT 06605  
203-384-1266  
Fax: 203-384-1267

**The M S Russin Group Inc**  
7648 Lexington Club Blvd #A  
Delray Beach FL 33446-3427  
407-496-0993; Fax: 407-496-1242

**RVP Inc**  
3050 N St Francis, Wichita KS 67219  
316-832-3428  
Fax: 316-832-3493



**Sabine Inc**  
4637 NW 6th St  
Gainesville FL 32609  
904-371-3829; 800-626-7394  
Fax: 904-371-7441

**Sachtler AG-  
Kommunikationstechnik**  
Gutenbergstraße 5  
Munich Germany D-85716  
+49-89-32158-200  
Fax: +49-89-32158-227

**SAiE Inc**  
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E-Mail: 74204,1407@compuserve.com

**Sage Alerting Systems Inc**  
700 Canal St, Stamford CT 06902  
203-357-1464  
Fax: 203-357-1531

**SAIC**  
4200 - M Lafayette Center Dr  
Chantilly VA 22021  
703-802-7320  
Fax: 703-802-7324

**Saki Magnetics Inc**  
26600 Agoura Road  
Calabasas CA 91302  
818-880-4054  
Fax: 818-880-6242

**Sample Rate Systems Oy**  
Kanslerinkatu 14  
Tampere Finland FIN33720  
+358 31 3165 045  
Fax: +358 31 3165 046  
E-Mail: info@samplerate.fi

**Samson Technologies Corp**  
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516-364-2244; 800-328-2882  
Fax: 516-364-3888

**Sandar Electronics AS**  
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Sandefjord Norway N-3208  
+47 334-59600  
Fax: +47 334-59333

**Sanix Corp**  
101-1-29-1 Kaminoge Setagaya-Ku  
Tokyo 158 Japan  
+81(3) 3702-5315  
Fax: +81(3) 3702-9654

**Sanken Microphones**  
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W Hollywood CA 90038  
213-845-1155  
Fax: 213-845-1170

**Sanrex Corp/Micro Ups Div**  
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Fax: 609-546-7720

**Sanyo**  
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Compton CA 90220  
909-337-7507  
Fax: 909-337-4307

**Sascom Marketing Group**  
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Oakville ON Canada L6L 3H6  
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Fax: 905-469-1129

**Satellite Export & Engineering**  
1007 Industrial Ave, Albion MI 49224  
517-629-5990  
Fax: 517-629-6690  
E-Mail: sepatriot@aol.com

**SAV**  
31 Rue Bouret  
Paris France 75019  
33-1-62-40-55-22  
Fax: 33-1-42-40-67-80

**SBE-Society of Broadcast  
Engineers**  
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Indianapolis IN 46240  
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E-Mail: http://www.sbe.org

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514-626-8943  
Fax: 514-626-8943

### Schafer World Communications Corp

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540-783-2000  
Fax: 540-783-2000

### Schalltechnik Dr-Ing Schoeeps GmbH

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D-76227 Karlsruhe Germany  
+49(0)721-943200  
Fax: +49(0)721-495750

### ScheduALL by VisuAll Inc

20377 NE 15th Court  
Miami FL 33129  
305-651-6241, 800-334-5083  
Fax: 305-653-1355

### Schmid Telecom AG

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CH-8045 Zürich Switzerland  
+41-1-456-1111; +41-1-456-1222  
Fax: +41-1-461-4888

### Schmid Telecommunication America

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Gloucester City NJ 08030  
609-742-1878; 800-438-3953  
Fax: 609-742-0485

### Schwalm & Associates

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Elkhart IN 46516  
219-293-8680; 800-533-6971  
Fax: 219-293-9270

### Schwem Division

Tinsley Laboratories Inc  
3900 Lakeside Drive  
Richmond CA 94806  
510-222-8110  
Fax: 510-223-4534

### Sciencel/Rextel Communications (1995)

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514-563-3969; Fax: 514-563-3969

### Scientific-Atlanta

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Norcross GA 30092-2967  
770-903-6163; Fax: 770-903-6246

### Scientific-Atlanta

Satellite Television Networks  
4356 Communications Dr  
Norcross GA 30093  
770-903-6057  
Fax: 770-903-6464  
E-Mail: Laura.Dunbar@Sciatt.com

### Scitex Digital Video

(formerly Abekas Video Systems)  
101 Galveston Drive  
Redwood City CA 94063  
415-369-5111; Fax: 415-369-4777

### Scitex Digital Video

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PO Box 2980/431 Crown Point Cir #150  
Grass Valley CA 95945  
916-272-9800; Fax: 916-272-9801

### Scott Studios Corp

13375 Stemmons #300, Dallas TX  
75234  
214-620-2211; 800-SCOTT-77  
Fax: 214-620-8811

### SCV Audio

186 Allee des Erables BP 50056  
F-95947 Roissy Cedex France  
+33 1 48 632211  
Fax: +33 1 48 632292



### Sealevel Systems Inc

PO Box 830, Liberty SC 29657  
864-843-4343  
Fax: 864-843-3067

### Seem Audio A/S

Postboks 233  
N-1361 Billingstad Norway  
+47 66 982700  
Fax: +47 66 845540  
E-Mail: seem@seem.no

### Selco Products Co

7580 Stage Rd  
Buena Park CA 90621  
714-521-8673; 800-257-3526  
Fax: 714-739-1507

### Sennheiser Electronic Corp

PO Box 987 (6 Vista Drive)  
Old Lyme CT 06371  
860-434-9190  
Fax: 860-434-1759

### Sennheiser elektronik KG

Am Labor 1  
D-30900 Wedemark Germany  
+49-51-30-60-00  
Fax: +49-51-30-63-12

### Sentry Systems

2211 5th Ave, Seattle WA 98121  
206-441-1971; 800-426-9082  
Fax: 206-441-6582

### Sescom Inc

2100 Ward Drive, Henderson NV 89015  
702-565-3400; 800-634-3457  
Fax: 702-565-4828

### Setcom Corp

1400 N Shoreline Blvd  
Mountain View CA 94043  
415-965-8020; 800-966-1034  
Fax: 415-965-1193

### Stainless Inc

210 S Third St, North Wales PA 19454  
215-699-4871; 800-824-7865  
Fax: 215-699-9597

### Shalco Inc

PO Box 1089, Smithfield NC 27577  
919-934-3135  
Fax: 919-934-3298

### Sharp Electronics Corp LCD Products Group

Sharp Plaza Mail Stop 1  
Mahwah NJ 07430-2135  
201-529-8731; 800-237-4277-press '9'  
Fax: 201-529-9636

### Shereff Systems Inc

8071 SW 184th Ave Lower Level  
Beaverton OR 97007-5760  
503-591-5984  
Fax: 503-591-0224

### Shintron Co Inc

45 Winthrop St, Concord MA 01742  
508-371-7500; 800-358-6872  
Fax: 508-371-7554

### Shively Labs

36 Harrison Road, Bridgton ME 04009  
207-647-3327  
Fax: 207-647-8273

### Shook Electronics USA Inc

18975 Marbach Lane Bldg 200  
San Antonio TX 78266  
210-651-5700; Fax: 210-651-5220  
E-Mail: shooksa@electrotx.com

### Shotmaker Dollies & Cranes

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Valencia CA 91355  
805-257-1444; 800-426-6284  
Fax: 805-257-6197

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708-866-2200; 800-25-SHURE  
Fax: 708-866-2279

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Mitchem, Surrey England CR4 4NX  
+44(0)1816 87-2523  
Fax: +44(0)1816 46-7084

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704-327-5000; 800-743-2671  
Fax: 704-327-5973

### Siel Sistemi Elettronici SRL

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I-20143 Milan Italy  
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Fax: +39-2-8136038

### Siemens AG Osterreich

Audio & Video Div  
Erdberger Lände 26  
A-1030 Wein Austria  
+43 1 71711-6134  
Fax: +43 1 71711-6510

### Siemens Audio Co

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New York NY 10017-3911  
212-949-2324  
Fax: 203-792-7863

### Sierra Design Labs

999 Tahoe Blvd #1  
Incline Village NV 89451  
702-831-7837  
Fax: 702-831-5710

### Sierra Video Systems Inc

PO Box 2462  
Grass Valley CA 95945  
916-478-1000  
Fax: 916-478-1105  
E-Mail: info@sierravideo.com

### Sigma Electronics Inc

PO Box 448  
East Petersburg PA 17520  
717-569-2681  
Fax: 717-569-4056

### Signature Music Library

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Fax: 219-921-0704

### Silent Source

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413-584-7944  
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2011 N Shoreline Blvd MS 2L-455  
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415-390-5016  
Fax: 415-960-2457

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708-697-2260  
Fax: 708-697-2272

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17 Progress St, Edison NJ 08820  
908-754-5800  
Fax: 908-754-5807

### Sine Control International Corp

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Tustin CA 92680  
714-259-0142  
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### SIRA Sistemi Radio

Via Senator Simonetta 26  
I-20040 Caponago (MI) Italy  
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Fax: +39 2 9574 2599

### Skaggs Telecommunications Svcs

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801-263-1370  
Fax: 801-268-5860

### SKB Case Co

2751 SE Monroe St, Stuart FL 34997  
407-288-7200  
Fax: 407-288-7299

### Skotel Corp

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St Laurent, Que Canada H4S 1W5  
514-333-7989  
Fax: 514-333-6914  
E-Mail: 72052.73@compuserve.com

### Smarts Broadcast Systems

2102 Main St, Emmetsburg IA 50535  
712-852-4047  
Fax: 712-852-3061

### SMPTÉ

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White Plains NY 10607  
914-761-1100  
Fax: 914-761-3115  
E-Mail: mktg@smpte.org

### George R Snell Associates

269 Sheffield St  
Mountainside NJ 07092-2318  
908-654-8855  
Fax: 908-654-8859

### Snell & Wilcox

Durford Mill  
Petersfield Hants England GU31 5AZ  
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Fax: +44(0) 1730 821199  
E-Mail: info@snell.co.uk



### Snell & Wilcox

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Sunnyvale CA 94089  
408-734-1688  
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### Society of Cable Telecommunications Engineers (SCTE)

669 Exton Commons, Exton PA 19341  
610-363-6888  
Fax: 610-363-5898

### Soft-Touch

400 N Columbus # 205  
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703-549-8445  
Fax: 703-549-8583

### Softtech Systems

4032 Blackburn Lane  
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301-989-2253  
Fax: 301-989-8413

### Softel Systems

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Reading, Berks England RG8 7JW  
+44(0) 1734-842151  
Fax: +44(0) 1734-843939

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514-845-1636  
Fax: 514-845-5676

### SoftWright LLC

1010 S Joliet #204, Aurora CO 80012  
303-344-5486  
Fax: 303-344-2811  
E-Mail: sales@softwright.com

### Solder Absorbing Technology/SAT

144 Oakland St  
Springfield MA 01108-1787  
413-788-6191; 800-628-8862  
Fax: 413-788-0490

### Solid Electronics Laboratories

630 Greene Countrie Drive  
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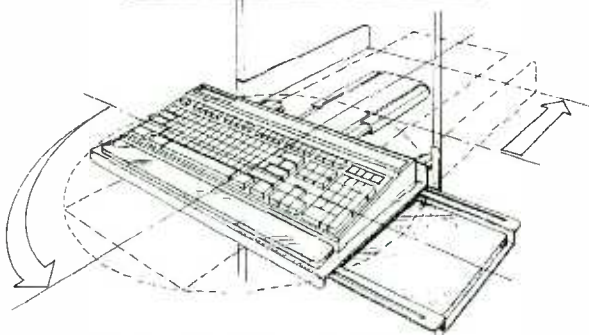




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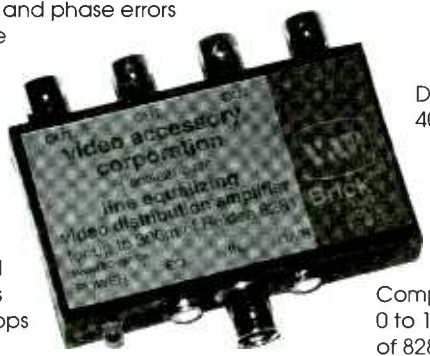
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Fax: +44(0) 1865 842118

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+54 1 701-8622  
Fax: +54 1 702-2375

**Solutec Ltd**  
4360 D'Iberville St  
Montreal Que Canada H2H 2L8  
514-522-8960  
Fax: 514-598-7808

**SONDOR Willy Hungerbuhler AG**  
Gewerbezentrum  
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Fax: +41 1 391-84-52

**Sonex/Ilbruck Inc**  
3800 Washington Ave N  
Minneapolis MN 55412  
612-520-3620; 800-662-0032  
Fax: 612-521-5639  
E-Mail: internet:  
74260,3430@compuserve.com

**Sonic Science**  
119 Spadina Ave # 767  
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800-26-Sonic

**Sonic Solutions**  
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Fax: 415-893-8008

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Fax: +44(0) 1 933 650726

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**Sony Business & Professional Group**  
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800-635-7669  
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201-476-8000  
Fax: 201-476-8072

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E-Mail: si@sound-ideas.com

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**Soundcraft Electronics**  
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818-893-4351  
Fax: 818-893-3639

**Soundcraft Electronics Cranborne House, Cranborne Road**  
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E-Mail: info@soundcraft.co.uk

**Soundfield Research Ltd**  
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Wakefield England WF1 1UH  
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Fax: +44(0)1924-201-618

**Soundscape Digital Tech**  
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Fax: 805-379-2648  
E-Mail: 74774.1337@compuserve.com

**Soundtracs PLC**  
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**Southern Illinois Antennas**  
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Metropolis IL 62960  
618-564-2481  
Fax: 618-564-2090

**Spaceward Graphics Ltd**  
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Haddenham Ely Cambs  
England CB6 3XA  
+44(0) 1353 741222  
Fax: +44(0) 1353 741216  
E-Mail: 100443.312@compuserve.com

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**Specialty Connector**  
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801-392-7531

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18800 142nd Ave NE  
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**Spectrum Communications Corp**  
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Fax: 215-631-5017

**A W Sperry Instruments Inc**  
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Fax: 516-434-3128

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**Sprague Magnetics Inc**  
15720 Stagg St, Van Nuys CA 91406  
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**Sprocket Digital**  
211 N Victory Blvd, Burbank CA 91502  
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315-638-1300  
Fax: 315-638-0333

**ST Keltec Corp**  
84 Hill Ave, Ft Walton Beach FL 32548  
904-244-0043  
Fax: 904-664-0546

**ST Oelektron Systems**  
37 Sutton Road, Webster MA 01570  
508-943-7440; Fax: 508-949-1804

**Staco Energy Products Co**  
301 Gaddis Blvd, Dayton OH 45403  
513-253-1191  
Fax: 513-253-1723

**StageTech Developments AB**  
PO Box 30048  
Malmo Sweden S-20061  
+46-40-150-018  
Fax: +46-40-150-019  
E-Mail: stdev@stagetech.se

**Stainless Inc**  
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215-699-4871  
Fax: 215-699-9597

**Standard Communications Corp**  
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**Standard Tape Laboratory Inc**  
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415-651-6600  
Fax: 415-851-5068

**Stanford Research Systems**  
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408-744-9040  
Fax: 408-744-9049

**Stanton Magnetics Inc**  
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Fax: 516-349-0230

**Stantron Cabinets**  
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818-890-3445  
Fax: 818-890-4460

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648 Superior Ave, Munster IN 46321  
800-822-7827; 800-782-2273  
Fax: 219-922-4442

**Steenbeck Inc**  
9554 Vassar Ave, Chatsworth CA 91311  
818-998-4033  
Fax: 818-998-6992

**Stellar Communications Inc**  
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918-256-7883  
Fax: 918-256-2558

**Michael Stevens & Partners Ltd**  
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Bromley England GB-BR2 9NT  
+44(0)181-460-7299  
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**Stone + Wire**  
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617-441-8780  
Fax: 617-441-8390  
E-Mail: rich@stonewire.com

**Storeel Corp**  
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**Strand Lighting Inc**  
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Rancho Domingue CA 90221  
310-637-7500; 800-733-0564  
Fax: 310-632-5519

**Strassner Editing Systems  
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408-227-9977; 800-836-3348  
Fax: 408-227-6707

**Studer Editech**  
1370 Willow Road #201  
Menlo Park CA 94025  
415-326-7030  
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Nashville TN 37210  
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Fax: 615-276-7619

**Studio Audio & Video Ltd/SADIE**  
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Ely, Cambridge England CB6 3LD  
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Fax: +44(0)1353 648867

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Hollywood CA 90038  
213-466-8101; 800-824-3130  
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708-676-9177  
Fax: 708-982-0747  
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Torrance CA 90501  
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**Summit Audio Inc**  
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408-395-2448; Fax: 408-464-7659

**Summit Software Systems Inc**  
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303-443-9866; 800-771-1824  
Fax: 303-443-9934

**Sundance Digital Inc**  
6309 N O'Connor Road #217  
Irving TX 75039  
214-444-8442; Fax: 214-444-8450  
E-Mail: SundanceDG@aol.com

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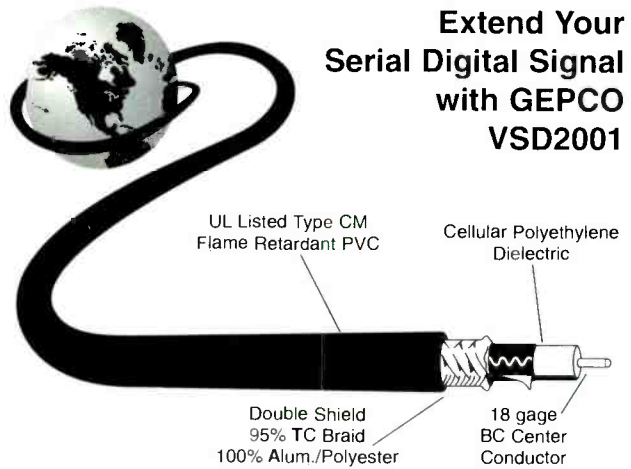
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216-747-4111  
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206-787-3222; Fax: 206-787-3211

**The Synclavier Co/SOC Assoc**  
Rivermill Complex, Lebanon NH 03766  
603-448-8887  
Fax: 603-448-6350  
E-Mail: info@synclavier.com;  
monica\_meaghr@synclavier.com

**Synelec**  
269 Mt Hermon Road #101  
Scotts Valley CA 95066  
408-461-1193; 800-796-3532  
Fax: 408-461-1196

**Synergistic Batteries Inc**  
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**Synergistic Technologies Inc**  
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412-873-0800; 800-659-7715  
Fax: 412-873-4770

**SyntheSys Research Inc**  
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Menlo Park CA 94025  
415-364-1853  
Fax: 415-364-5716  
E-Mail: synthsys@well.com

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10 Av d'Epenex, PO Box 306  
CH-1024 Ecublens Switzerland  
+41 21-634 3278  
Fax: +41 21-634 3279

**System Video**  
Venture House Davis Road  
Chessington Surrey England KT9 1TT  
+44(0) 1813 91-5678  
Fax: +44(0) 1813 91-5522

**Systembase Ltd**  
Minchens Court Minchens Lane  
Bramley Hants England RG26 5BH  
+44-1256-882-797  
Fax: +44-1256-882-797

**Systems Development Group Inc**  
5744 Industry Lane #J  
Frederick MD 21701  
301-846-7990; 800-221-8975  
Fax: 301-698-4683

**The Systems Group**  
66 Willow Ave, Hoboken NJ 07030  
201-795-4672; Fax: 201-798-3033

**Systems Wireless Ltd**  
465 Herndon Pkwy, Herndon VA 22070  
703-471-7887; 800-542-3332  
Fax: 703-437-1107  
E-Mail: swl@wdn.com

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**Taber Mfg & Engineering Co**  
14260 Garden Road #276  
Poway CA 92064  
619-592-7861  
Fax: 619-487-5733

**Tactile Technology Inc**  
13855 Bentley Place  
Cerritos CA 90701-0000  
310-802-1500  
Fax: 310-802-7330

**Talk America Radio Network**  
354 Turnpike St, Canton MA 02021  
617-828-4546  
Fax: 617-828-3822

**Tally Display Corp**  
120 Clinton Ave, So Nyack NY 10960  
914-365-6393; 800-75-TALLY  
Fax: 914-359-7078

**Tamron Industries Inc**  
99 Seaview Blvd  
Port Washington NY 11050  
516-484-8880  
Fax: 516-484-8906

**Tandberg Data Storage AS**  
PO Box 134 Kjelsaas  
N-0411 Oslo Norway  
+47 22 18 90 90  
Fax: +47 22 18 98 78

**Tannoy Ltd**  
Rosehall Ind Est Coatbridge  
Strathclyde Scotland GB-ML5 4TF  
+44(0) 1236-420-199  
Fax: +44(0) 1236-428-230

**Tannoy/TGI North America**  
300 Gage Ave #1  
Kitchener Ont Canada N2M 2C8  
519-745-1158  
Fax: 519-745-2364

**Tape Storage Systems-TCS**  
PO Box 5267, Walnut Creek CA 94596  
510-686-1801; 800-874-7240  
Fax: 510-686-1802

**Tapscan Inc**  
3000 Riverchase Galleria #850  
Birmingham AL 35244  
205-987-7456

**Target Technology Inc**  
PO Box 609  
Penn Valley CA 95946  
916-639-2102  
Fax: 916-639-2212

**Target Vision**  
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Pittsford NY 14534  
800-724-4044  
Fax: 716-248-2354  
E-Mail: info@targetvision.com

**TASCAM**  
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Montebello CA 90640  
213-726-0303  
Fax: 213-727-7635

**Taurus Communications**  
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818-765-0782  
Fax: 818-787-0419

**TC Electronic A/S**  
Grimhoejvej 3  
DK-8220 Brabrand Denmark  
+45 86262800  
Fax: +45 86262928

**TC Electronic**  
717 Lakefield Road #C  
Westlake Village CA 91361  
805-373-1828  
Fax: 805-379-2648

**Teac Corp**  
3-7-3 Naka-cho, Musashino-shi  
Tokyo 180 Japan  
+81 422-52-5081  
Fax: +81 422-52-6783

**Tech Electronics Inc**  
6420 Atlantic Blvd, Norcross GA 30071  
770-446-1416  
Fax: 770-448-5724  
E-Mail: 74243.2257@compuserve.com

**Tech Labs Inc**  
955 Belmont Ave  
North Haledon NJ 07508  
201-427-5333; 800-848-5468  
Fax: 201-427-5455

**Techflex Inc**  
PO Box 119 (50 Station Road)  
Spria NJ 07871  
201-629-6253  
Fax: 201-729-9320

**Technet Systems Group**  
PO Box 422, Auburn NH 03032  
603-483-5365  
Fax: 603-483-0512

**Technica Del Arte bv**  
Alexander Battalaan 53  
NL 6221 CB Maastricht The Netherlands  
+31-43-321 9499  
Fax: +31-43-363 9700  
E-Mail: technica@pl.net

**Technical Aesthetics Operations/  
TAO**  
PO Box 1254, Rolla MO 65401-1254  
314-364-4925; 800-TAO-EDIT  
Fax: 314-364-5631

**Technical Projects Inc**  
PO Box 3247, Barrington IL 60010-3247  
708-381-3801; 800-562-5872  
Fax: 708-381-4360

**Techni-Tool Inc**  
5 Apollo Rd, Plymouth Meeting PA 19462  
610-825-4990  
Fax: 610-828-5623

**Technomad Inc**  
340 Riverside Dr  
Northampton MA 01060  
800-464-SPKR  
Fax: 413-586-5681  
E-Mail: info@technomad.com; http://  
www.technomad.com

**Technosystem SPA**  
Via P. Fumaroli 14  
I-00155 Roma Italia  
+39-6-2280396  
Fax: +39-6-2282355

**TECH-SA-PORT**  
PO Box 5295, Pittsburgh PA 15206-0295  
412-661-1620; 800-543-2233  
Fax: 412-361-5103

**Tectan Inc**  
PO Box 27157, Concord CA 94527  
510-798-2222; 800-832-8261  
Fax: 510-798-2224

**Tek Media Supply Co**  
4700 Chase Ave  
Lincolnwood IL 60646  
708-677-3000; 800-323-7520  
Fax: 708-677-1311  
E-Mail: rti@us.com

**Tekniche Inc**  
100 Stonehurst Court  
Northvale NJ 07467-2487  
201-784-2288  
Fax: 201-784-3860

**Tekniche Ltd**  
18 Boundary Way  
Woking - Surrey England GU21 5DH  
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Fax: +44(0)1483-770195

**Teko Telecom SRL**  
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**Tekskil Industries Inc**  
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Surrey, BC Canada V3R 7A2  
604-589-1100  
Fax: 604-589-1185  
E-Mail: tekskil@tekskil.com

**Tektronix Inc**  
14180 SW Karl Braun Drive MS 50-216  
Beaverton OR 97077  
503-627-4697; 800-426-2200  
Fax: 503-627-5593  
E-Mail: http://www.tek.com/measurement

**Telcom Research**  
A7-3375 North Service Road  
Burlington, Ont. Canada L7N 3G2  
905-336-2450  
Fax: 905-336-1487

**Telcor International AB**  
Upplagsvagen 1-5  
S-11743 Stockholm Sweden  
+46 8 182465  
Fax: +46 8 182466

**Telecast  
Fiber Systems, Inc.**

**Telecast Fiber Systems**  
102 Grove St  
Worcester MA 01605  
508-754-4858  
Fax: 508-752-1520

**Telecommunications Techniques  
Corp**  
20410 Observation Drive  
Germantown MD 20876  
301-353-1550; 800-638-2049  
Fax: 301-353-0734

**Telect Inc**  
PO Box 665, Liberty Lake WA 99019  
509-926-6000; 800-551-4567  
Fax: 509-926-8915

**Teledac Inc**  
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St Lambert, PQ Canada J4P 2P4  
514-671-7762  
Fax: 514-671-4747

**Teledyne Brown Engineering**  
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Hunt Valley MD 21031-1311  
410-771-8600  
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**Telefunken Sendertechnik GmbH**  
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D-10553 Berlin 21 Germany  
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Fax: +49 30 3463-2733

**Telemetry Inc**  
6 Leighton Place  
Mahwah NJ 07430  
201-848-9818  
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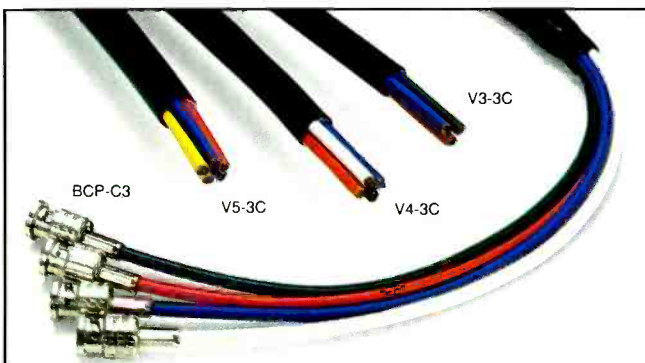
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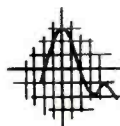
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Oregon City OR 97045  
503-656-2774; 800-331-2774  
Fax: 503-632-3362

**Telescript Inc**  
445 Livingston St  
Norwood NJ 07648  
201-767-6733  
Fax: 201-784-0323

**Teletech Inc**  
23400 Michigan Ave #615  
Dearborn MI 48124  
313-562-6873  
Fax: 313-562-8612  
E-Mail: tti@msen.com

**Television Equipment Associates**  
PO Box 499  
S Salem NY 10590-0499  
914-763-8893  
Fax: 914-763-9158  
E-Mail: SJT123@AOL.com

**Television Engineering Corp**  
101 Industrial Dr  
Sullivan MO 63080  
314-860-4700  
Fax: 314-860-4600

**Television Systems Ltd**  
#4 Kings Grove  
Maidenhead, Berks England SL6 4DP  
+44(0)1628-773904  
Fax: +44(0)-1628-773635

**Telex Communications Inc**  
9600 Aldrich Ave S  
Minneapolis MN 55420  
612-884-4051; 800-823-6107  
Fax: 612-884-0043  
E-Mail: dan.wright@telex.com

**Telfax Communications**  
2501 N Loop Drive  
Ames IA 50010  
515-296-9911  
Fax: 515-296-9910

**Telos Systems**  
2101 Superior Ave  
Cleveland OH 44114  
216-241-7225  
Fax: 216-241-4103

**Tel-Test Inc**  
605 NW 53rd Ave #17  
Gainesville FL 32609  
904-374-4503; 800-768-0037  
Fax: 904-376-3260

**Teltron Technologies Inc**  
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Birdsboro PA 19508  
610-582-2711; 800-835-8766  
Fax: 610-582-0851

**TEM SPA**  
Via Bruno Buozzi 18/20  
I-20089 Rozzano (Milano) Italy  
+39 2 89200131  
Fax: +39 2 89200129

**Tenco Tower Co**  
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Sacramento CA 95827-1326  
916-638-8833  
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**Tentel Corp**  
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**Teracom Components AD**  
S-24291 Hornby Sweden  
+46-415-16400  
Fax: +46-415-16401  
E-Mail: components@teracom.se

**Test Probes Inc**  
9878 Brown Deer Road  
San Diego CA 92121  
619-552-2090; 800-368-5719  
Fax: 619-535-1260

**Texas Electronics Inc**  
PO Box 7225  
Dallas TX 75209  
214-631-2490; 800-424-5651  
Fax: 214-631-4218

**Texscan MSI**  
124 N Charles Lindbergh Drive  
Salt Lake City UT 84116  
801-359-0077; 800-367-6011  
Fax: 801-359-0216

**TFT Inc**  
3090 Oakmead Village Dr  
Santa Clara CA 95051-0862  
408-727-7272; 800-347-3383  
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**Thames Engineering/Thames Television**  
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Teddington England TW11 9NT  
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Baltimore MD 21211  
410-467-1225  
Fax: 410-467-1289

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Fax: +33 (1) 3420 7047

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**Thomson Components & Tubes Corp**

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Incline Village NV 89451  
702-833-0200; 800-238-1055  
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Mt Prospect IL 60056-6023  
708-297-0070; 800-PIK-TOKO  
Fax: 708-699-7864

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Westlake OH 44145  
216-871-9900  
Fax: 216-871-8320

**3M Audio and Video Markets Div**

3M Center Bldg 223-5N-01  
St Paul MN 55144  
612-733-2709  
Fax: 612-737-5583

**3M Professional A/V & Specialty Products**

3M Center 223-5N-01  
St. Paul MN 55144-1000  
612-736-4179  
Fax: 612-737-5583

**3M Telecom Markets**

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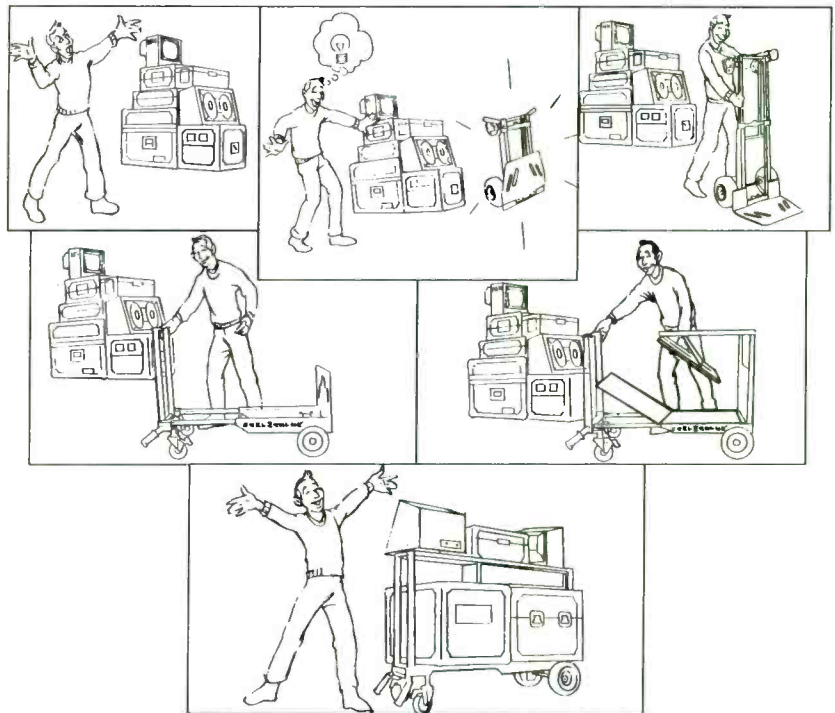
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Fax: 619-587-0257  
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708-541-9400  
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### Toshiba America/Info Systems

9740 Irvine Blvd  
Irvine CA 92713-9724  
714-583-3181

### Toshiba Corp

1-1 Shibaura 1-Chome Minato-ku  
Tokyo 105-01 Japan  
+81 (3) 345703038  
Fax: +81 (3) 3457-0545

### Total Audio Concepts Ltd

New Islington Mill, Regent Trading Est  
Oldfield Rd. Salford England M5 4SX  
+44(61) 834-6747  
Fax: +44(61) 1834-0593

### Total Concept Sales

501 W Glenoaks Blvd #343  
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818-547-9476  
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Ft Lauderdale FL 33309  
954-771-7180  
Fax: 954-771-7195

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Vinita OK 74301  
918-256-8748

### Transtector Systems Inc

10701 Airport Drive  
Hayden Lake ID 83835  
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Fax: 208-762-6133

### Tranvideo SA

ZI BP 526  
Verneuil Sur Avr France 27135  
+33 3232 2761  
Fax: +33 3260 7479

### Tremetrics Inc

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Austin TX 78728-3812  
512-251-1400  
Fax: 512-251-1596

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Fax: +44 1932) 226721

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www.trilithic.com

### Trilogy Broadcast Ltd

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Fax: +44(0)1264-334806

### Triplett Corp

One Triplett Drive  
Bluffton OH 45817  
419-358-5015; 800-874-7538  
Fax: 419-358-7956

### Tripp Communications Sales-TCS

PO Box 5267  
Walnut Creek CA 94596  
510-686-1801; 800-874-7240  
Fax: 510-686-1802

### Tripp Lite

500 N Orleans  
Chicago IL 60610-4188  
312-755-5400  
Fax: 312-644-6505  
E-Mail: info@tripplite@mcimail.com

### Troll Technology Corp

25020 W Ave Stanford  
Valencia CA 91355  
805-295-0770  
Fax: 805-295-0771

### Trompeter Electronics Inc

31186 LaBaya Drive/PO Box 5069  
Westlake Village CA 91362-4047  
818-707-2020; 800-982-2629  
Fax: 818-706-1040

### Tron-Tek Inc

6570-B E 51st St  
Tulsa OK 74145-7634  
918-663-4877  
Fax: 918-664-0309

### Truevision

2500 Walsh Ave  
Santa Clara CA 95051  
408-562-4200; 800-SAY-COLOR  
Fax: 408-562-4065

### Truevision/Raster Ops

7340 Shadeland Station  
Indianapolis ID 46256  
317-577-8742  
Fax: 317-576-7700

### Trylon Towers

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519-669-5421  
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Fax: 800-473-2791  
E-Mail: Steve@TTE.com

## T-Tech Corp

PO Box 151  
Hudson MA 01749  
508-562-5820  
Fax: 508-568-1219

## Tungstone Batteries Inc

18 Billings St  
Sharon MA 02067  
617-784-2000  
Fax: 617-784-5563

## Turtle Beach Systems

52 Grumbacher Road  
York PA 17402-9407  
717-767-0200; 800-645-5640 Sls  
Fax: 717-767-6033  
E-Mail: compuserve: GoTurtle; info on  
Internet: sales@TBeach.com; www  
site: http://www.tbeach.com

## TV/Com International

16516 Via Esprillo, San Diego CA 92127  
619-451-1500  
Fax: 619-451-1505

## TV Equipment - Matthey

PO Box 499, S Salem NY 10590-0499  
914-763-8893  
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E-Mail: SJT123@aol.com

## TV One Multimedia Solutions

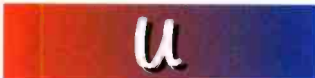
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Erlanger KY 41018  
606-282-7303  
Fax: 606-282-8225  
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## 27th Dimension

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407-575-7004; 800-634-0091  
Fax: 407-575-3232

## TWR Lighting Inc

PO Box 55606, Houston TX 77255  
713-973-6904  
Fax: 713-973-0205



## ULTECH Corp

28C Great Hill Road  
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203-735-5805  
Fax: 203-735-6653

## ULTIMATE Corp

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818-993-8007  
Fax: 818-993-3762

## Union Connector

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516-623-7461  
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Fax: 716-544-1110

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4771 E Hunter, Anaheim CA 92807  
714-777-4510  
Fax: 714-777-2434

## United Power Corp

2132 Tomlynn St, Richmond VA 23230  
804-254-5730; Fax: 804-354-0709

## United Ropeworks USA Inc

151 Commerce Drive  
Montgomeryville PA 18936-9628  
215-368-6611  
Fax: 215-362-7956



## United States Broadcast

2794 Circleport Drive  
Erlanger KY 41018  
606-282-1802  
Fax: 606-282-1804

## United Technologies Photonics Inc

1289 Blue Hills Ave  
Bloomfield CT 06002  
860-769-3000  
Fax: 860-769-3001

## Unitronic

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+41-56-96-29-64  
Fax: +41-56-96-54-90

## Universal Electronics Inc

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Columbus OH 43232-4135  
614-866-4605; 800-241-8171  
Fax: 614-866-1201

## UREI

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818-893-8411  
Fax: 818-893-3639

## US Tape & Label Corp

1561 Fairview, St Louis MO 63132  
314-423-4411  
Fax: 314-423-2964

## USAFcam

11571 E 126th St, Fishers IN 46038  
317-842-2600; 800-95-WEDGE  
Fax: 317-842-2760

## Utah Scientific - Dynatech

4750 Wiley Post Way  
Salt Lake City UT 84116  
801-575-8801; 800-453-8782  
Fax: 801-575-3299

## UTE Microwave Inc

3500 Sunset Ave, Asbury Park NJ 07712  
908-922-1009  
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405-946-5551  
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## V-Soft Communications


1600 Picturesque Drive  
Cedar Falls IA 50613  
319-266-8402; 800-743-3084  
Fax: 319-266-9212

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Valley NE 68064  
402-359-2201; 800-825-6668  
Fax: 402-359-5856

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NL 5175 AX Loon Op Zand  
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614-771-2718  
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**Vantage Point Products Corp**  
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818-843-4831  
Fax: 818-843-6544  
E-Mail: vasgroup@directnet.com

**VDP Inc**  
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Las Cruces NM 88005  
505-524-8959; 800-843-2236  
Fax: 505-524-9669

**VEAM/Litton Systems Inc**  
100 New Wood Road  
Watertown CT 06795  
860-274-9681; Fax: 860-274-4963

**Veetronix Inc**  
PO Box 480, Lexington NE 68850  
308-324-4600; 800-445-0007  
Fax: 308-324-4985

**Vega**  
9900 Baldwin Place  
El Monte CA 91731-2294  
818-442-0782; 800-877-1771  
Fax: 818-444-1342

**Velbon International Corp**  
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310-530-5446; 800-423-1623  
Fax: 310-618-0166

**Doug Vernier Telecommunications Consultants**  
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**Vertex Communications Corp**  
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Kilgore TX 75602  
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Fax: 903-984-1826

**Vertigo Technology**  
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Vancouver BC Canada V6E 1W2  
604-684-2113; Fax: 604-684-2108

**VG Electronics Ltd**  
Theaklen Drive  
Hastings E Sussex England TN34 1YQ  
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Fax: +44 (1424) 435699

**VGW Inc (Video Gainesville)**  
2400 NE Waldo Road  
Gainesville FL 32609  
904-372-0270; Fax: 904-378-5320

**Viagrafix - Design CAD Division**  
One American Way, Pryor OK 74361  
918-825-7555; 800-233-3223  
Fax: 918-825-6359

**Vicon Industries Inc**  
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Melville NY 11747  
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Fax: 516-293-2627



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214-869-0200  
E-mail: dallas@vduuncan.com

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**Vid-Video Inc**  
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**Video Accessory Corp**  
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Fax: 303-440-8878

**Video Associates Labs Inc**  
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Austin TX 78759  
512-346-5781; 800-331-0547  
Fax: 512-346-9407

**Video Communications**  
1325 Springfield St  
Feeding Hills MA 01030-0215  
413-786-7955  
Fax: 413-786-4663  
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70713.2744@compuserve.com

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516-231-4400  
Fax: 516-231-4405

**Video Display Corp**  
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212-757-3300  
Fax: 212-956-6528

**Video Engineering Ltd**  
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London England W1R 1TF  
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**Video Int'l Development GmbH**  
Ulmenweg 11  
Barsinghausen Germany D-3013  
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Fax: +49 (5105) 83652

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516-243-5414  
Fax: 516-243-4314

**Video-Matic Group**  
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Salt Lake City UT 84119  
801-975-1116; 800-637-5546  
Fax: 1801-975-1129

**Video Visions Inc/Delcom**  
2344 Perot St, Philadelphia PA 19130  
215-765-8811  
Fax: 215-235-3633

**VideoFusion Ltd Partnership**  
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Maumee OH 43537  
419-891-1090; 800-638-5253  
Fax: 419-891-9673

**VideoLab Para Technologies**  
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Beaverton OR 97006-6028  
503-644-7657; 800-548-4466  
Fax: 503-644-8678

**Videomagnetics Inc**  
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Colorado Springs CO 80906  
719-579-6643; 800-432-3887  
Fax: 719-576-5655

**Videomedia Inc**  
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Fax: 408-866-4859

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206-882-7878  
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**Visionetics Int'l**  
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310-316-7940  
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**Vistek Electronics Inc**  
4405 Riverside Drive #101  
Burbank CA 91505  
818-562-6544  
Fax: 818-562-3342


**Visual Methods Inc**  
35 Charles  
Westwood NJ 07675  
201-666-3950

**Vitron Systems**  
695 Central Dr #109  
Virginia Beach VA 23454  
804-431-9362  
Fax: 804-431-8489

**Vizcom/Satellite Systems**  
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San Luis Obispo CA 93405  
805-544-7900

**VIZ Technologies**  
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West Sussex England RH16 1DB  
44(0)1444-413443  
Fax: 44(0)1444-414047  
E-Mail: 100064.3527@compuserve.com

**VVX Inc**  
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Tulsa OK 74172  
918-588-5760; 800-324-8686  
Fax: 918-588-5761



**Walter Brewer Corp**  
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Tulsa OK 74135-7490  
918-493-7323; 800-255-9458  
Fax: 918-491-9817

**Wandel & Goltermann Electronic  
Measurement Technology**  
PF 1262 (Mühlenweg 5)  
Enningen Germany D-72800  
+49 7121 862102  
Fax: +49 7121 861333

**Ward-Beck Systems Ltd**  
841 Progress Ave  
Scarborough Ont Canada M1H 2X4  
416-438-6550; 800-771-2556  
Fax: 416-438-3865

**Waterfront Communications Corp**  
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212-599-1011  
Fax: 212-599-4172

**Wave-Space Inc**  
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714-770-6601  
Fax: 714-770-6575

**Wavefront Technologies**  
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**Weather Central Inc**  
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608-274-5789; Fax: 608-273-5854  
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E-Mail: weisseng@dial.evnet.ch

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507-455-4100; 800-326-8373  
Fax: 507-455-4258

**Wescam Inc**  
1810 Highway 6 N  
Hamilton Ont Canada L9J 1H2  
416-529-5132  
Fax: 416-529-5311

**West Penn Wire/CDT**  
PO Box 762 (2833 W Chestnut St)  
Washington PA 15301  
800-245-4964  
Fax: 412-2222-6420

**West Side Video**  
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212-757-3300; Fax: 212-956-6528

**F J Westcott Co**  
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419-243-7311; 800-886-1689  
Fax: 419-243-8401

**Western Electronic Production**  
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619-723-9944  
Fax: 619-723-8844

**Westinghouse**  
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410-584-3011; Fax: 410-584-3121

**Westlake Audio**  
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Rochester NY 14612  
716-663-8820  
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**White Instruments/C Van R**  
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602-254-1570  
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**Will-Burt**  
PO Box 900, Orrville OH 44667-0900  
216-682-7015  
Fax: 216-684-1190

**Wiltronix Inc**  
16850 Oakmont Ave, PO Box 364  
Washington Grove MD 20880  
301-258-7676; 800-848-7870  
Fax: 301-963-8624

**Wind River Broadcast Center**  
117 E 11th St, Loveland CO 80537  
970-669-3442; 800-669-3993  
Fax: 970-663-6081

**Winsted Corp**  
10901 Hampshire Ave S  
Minneapolis MN 55438  
612-944-9050; 800-447-2257  
Fax: 612-944-1546

**WireReady Newswire Systems**  
82 Herbert St, Framingham MA 01701  
508-879-0080; 800-833-4459  
Fax: 508-879-1199  
E-Mail: wireready@wireready.com;  
davidg@wireready.com

**Wireworks Corp**  
380 Hillside Ave, Hillside NJ 07205  
908-686-7400; 800-642-9473  
Fax: 908-686-0483  
E-Mail: info@wireworks.com; home page  
on internet: http://www.wireworks.com

**Wohler Technologies**  
Innovative Audio Monitoring Systems

**Wohler Technologies Inc**  
713 Grandview Drive  
S San Francisco CA 94080  
415-589-5676; Fax: 415-589-1355

**Wolf Coach Inc**  
7 B St, Auburn Ind Park  
Auburn MA 01501  
508-791-1950; Fax: 508-799-2384  
E-Mail: Wolftruck@aol.com

**Woods Industries Inc**  
510 3rd Ave, Carmel IN 46032  
317-844-7261; 800-428-6168  
Fax: 317-846-0451

**WPA Film Library**  
16101 108th Ave, Orland Park IL 60462  
708-535-1540; 800-777-2223  
Fax: 708-535-1541

**WSI Corp**  
4 Federal St, Billerica MA 01821  
508-670-5000  
Fax: 508-670-5100



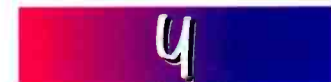
**XAOS Tools**  
600 Townsend #270 E  
San Francisco CA 94103  
415-487-7000  
Fax: 415-558-9886

**Xcel Controls Inc**  
1600 W 6th St  
Mishawaka IN 46544  
219-259-7804; 800-288-7362  
Fax: 219-259-5769  
E-Mail: compuserve - 72703,1415

**Xentek Inc**  
1770 La Costa Meadows Dr  
San Marcos CA 92069  
619-471-4001; 800-493-6835  
Fax: 619-471-4021

**XTA Electronics Ltd**  
Riverside Bus Centre Worcester Rd  
Stourport on Severn England DY13 9BZ  
+44-1299-879-977  
Fax: +44-1299-879-969

**Xymox Systems**  
7139 Woodley Ave, Van Nuys CA 91406  
818-786-8801  
Fax: 818-343-5104



**Yamaha Corp Pro Audio Systems  
Div**  
10-1 Nakazawa-Cho  
Hamamatsu Japan J-430  
+81-53-460-2441  
Fax: +81-53-474-5849

**Yamaha Corp of America**  
6600 Orangethorpe Ave  
Buena Park CA 90620  
714-522-9011  
Fax: 714-739-2680

**Yamashita Engineering Mfg Inc**  
734 Silver Spur Road # 203  
Rolling Hills Estate CA 90273  
310-544-9343;  
Fax: 310-544-9363

**Y/C Plus Inc**  
310 SW 6th St, Topeka KS 66603-3109  
913-235-5014; 800-586-1700  
Fax: 913-235-3485



**Zaxcom**  
140 Greenwood Ave  
Midland Park NJ 07432  
201-652-7878  
Fax: 201-652-7776

**Zero Stantron**  
2224 Montague (PO Box 4527)  
Pacoima CA 91333  
818-890-3445; 800-821-0019  
Fax: 818-890-4460

**Ziehl Electronic Service**  
8611 Dale Road, Gasport NY 14067  
716-772-7800

**Zonal Ltd**  
Holmethorpe Ave  
Redhill, Surrey England RH11 2NX  
01737-767171  
Fax: 01737-767610

**Z-Systems**  
4641-F NW 6th St, Gainesville FL 32609  
904-371-0990  
Fax: 904-371-0093

**ZZZap Power**  
PO Box 532, Champlain NY 12919  
514-369-4919; 800-682-2677  
Fax: 514-369-4817

## Were you left out?

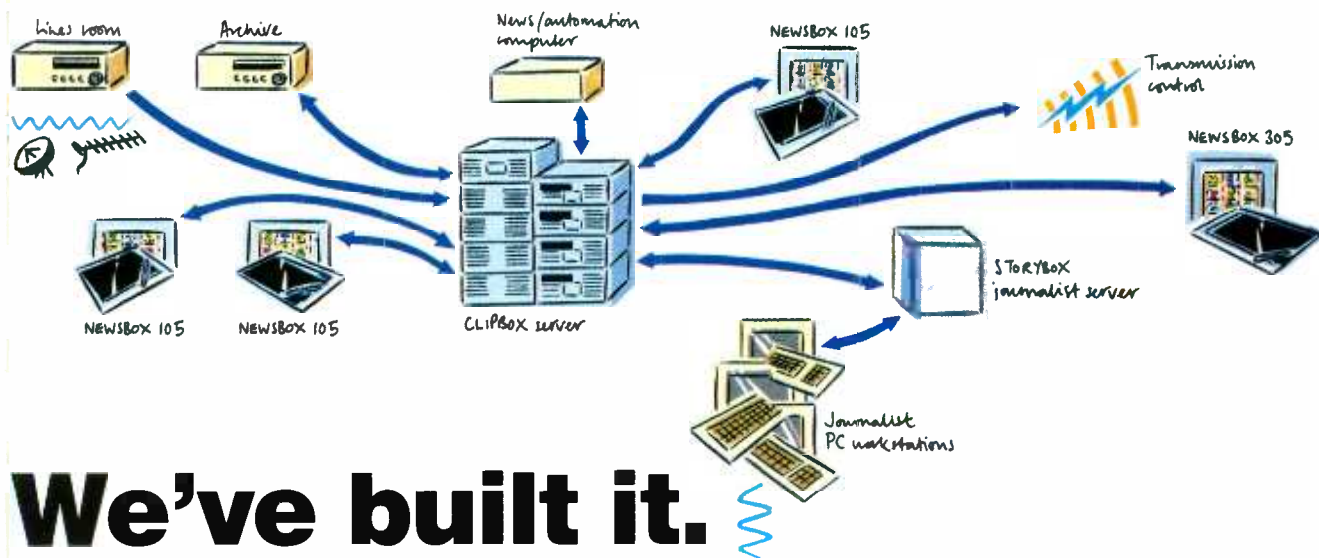
Information for this directory was taken from company responses to a questionnaire mailed in September 1995 to more than 1,800 companies in the broadcast, production and communications industries.

The mailing included all companies participating in the 1994 Buyers Guide, as well as new organizations exhibiting at NAB and other trade shows, new product releases, etc. Companies that have not responded for three or more years are dropped from the directory as a matter of policy.

If your company should be included, please drop a note to:

Directories Editor  
Intertec Publishing  
9800 Metcalf  
Overland Park, KS 66212

# Some companies will sell you a vision of the future of news editing and transmission.



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Quantel's Integrated News Production System allows multiple Newsboxes™ - each one a complete edit suite in its own right - to be networked with a Clipbox™ server, sharing up to 40 hours of centrally stored, true random access video and audio. Other news operations such as the Lines Room, VTR sources, transmission suite and archive tape facility

can all be connected with the Clipbox, as well as news computers, using the well-proven Quantel remote control protocol. The unique Storybox™ journalist server brings picture editing right

into the newsroom.

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**Affordable... Compact... Broadcast quality**

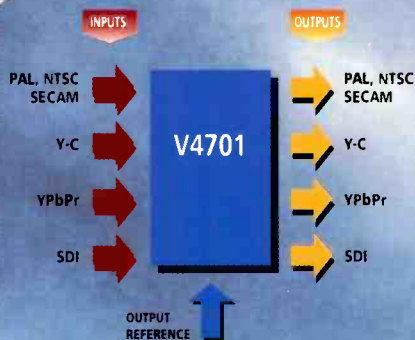
# VEGA

## STANDARDS CONVERTER

- PAL/PAL-M/PAL-N/NTSC/SECAM bi-directional conversion
- YPbPr and Y-C interfaces
- Serial component digital, CCIR601\*
- 4-field/4-line linear interpolation
- Adaptive noise reducer, up to 20dB of reduction
- Full-frame TBC/synchroniser
- 4:2:2 processing
- Dual-channel audio delay\*
- Only 1 RU, only 2 kg



\*Options



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COMPUERVE: 100270,3322

Circle (53) on Reply Card

# Product Directory

Colored listings represent companies that have advertisements in this issue. For the location of their respective ads, see page 104.

## Audio Products

### Amplifiers, Distribution

AAVS/Advanced Audio Visual Systems  
Acoustech  
Acutron Electroacustica Lda  
ADM Systems  
AEQ SA  
Aphex Systems  
API-Audio Products Inc  
APS Professional Video Products  
Arrakis Systems  
ATI-Audio Technologies Inc  
Audio Bauer ProAG  
Audio Developments Ltd  
Audio Intervisual Design  
Audioarts Engineering  
Audiotronics Inc  
Auidix Broadcast Ltd  
Avitel Electronics Ltd  
BAF Communications Corp  
BAL Broadcast Ltd  
Benchmark Media Systems Inc  
BFE Fernmeide Technik & Elektronik AG  
BGW Systems Inc  
Biamp Systems  
Broadcast Devices Inc  
Broadcast Equipment & Parts  
CanfordAudio  
Dwight Cavendish Co  
C4Audio Systems  
Channelmatic Inc  
Communications & Power Industries  
**Conex Electro Systems Inc**  
Continental Electronics Corp  
D&BAudiotechnikAG  
DanbridgeA/S  
**Datatek Corp**  
Di-Tech Inc  
D&R Electronica b.v.  
Drawmer Ltd  
Drawmer/QMI  
DT Electronics Ltd  
DTL Broadcast Ltd  
DYNAIR Electronics Inc  
**ESE**  
FM Acoustics Ltd  
Focusrite Audio Eng Ltd  
For-A Co Ltd  
Fougerolle Audio/Video  
FSR Inc  
Full Compass Systems Ltd  
Fuller Mfg  
GEE Broadcast Systems Ltd  
Gentner Communications Corp  
Ghielmetti Kommunikationstechnik  
GP Enterprises Inc  
Grass Valley Group  
HEDCO  
**Henry Engineering**  
HES Electronics  
Image Video/Div of 1077541 Ontario Ltd  
Inline Inc  
Intelix Corp  
IRP Professional Sound Products  
IRT Electronics Pty Ltd  
JBL Professional  
J-Lab  
JNS Electronics Inc  
JT Communications  
Kaitronics Corp  
KiNTEK Inc  
Kramer Electronics  
Tony Larking Pro Sales Ltd  
**Leitch Inc**  
Link Electronics Inc

Logitek Electronic Systems Inc  
Malcolm Hill Associates  
McCurdy Radio Industries Ltd  
Modulation Sciences  
**Multidyne Inc**  
NBT/BSM Systems  
Nova Systems Inc  
NVision Inc  
Ogenic Technologies  
Omicron Video  
Opamp Labs Inc  
Pacific Recorders & Engineering  
Perma Power Electronics Inc



### PESA Switching Systems Inc

Philip Drake Electronics  
**Pixel Instruments Corp**  
Fuller Manufacturing Inc  
Practel International Pty Ltd  
PRECO (Broadcast Systems) Ltd  
**Pro-Bel Ltd**  
Professional Sound Corp  
QMI  
Radio Design Labs  
Radio Systems Inc  
Ram Broadcast Systems  
RAMI  
Ramko Research  
Rane Corp  
RE  
Richmond Sound Design Ltd  
Sandar Electronics AS  
Satellite Export & Engineering  
SAV  
Scantex Labs Inc  
SCVAudio  
Seem Audio A/S  
Sescom Inc  
Shintron Co Inc  
Shure Brothers Inc  
Shuttlesound Ltd  
Siel Sistemi Elettronici SRL  
Siemens AG Osterreich/Audio & Video Div  
Sierra Video Systems Inc  
Sigma Electronics Inc  
Snell & Wilcox  
Sound Tech  
Spectra Sonics  
Studer Professional Audio AG  
Studio Technologies Inc  
Target Technology Inc  
TASCAM  
Tech Electronics Inc  
Tekniche Inc  
Telect Inc  
Tel-Test Inc  
TOA Electronics Inc  
Toko America Inc  
Trilogy Broadcast Ltd  
Utah Scientific - Dynatech  
Valley Audio/Galaxy Audio  
**Video Accessory Corp**  
Videoquip Research Ltd  
**Videotek Inc**  
Viewsonics Inc  
Vortex Communications  
Ward-Beck Systems Ltd  
**Wheatstone Corp**  
Whirlwind  
Wiltronix Inc  
XTA Electronics Ltd  
Yamashita Engineering Mfg Inc

### Amplifiers, Monitor, Power

Acoustech  
Acutron Electroacustica Lda  
ADM Systems  
AEQ SA  
Alesis Corp  
Altec Lansing  
APS Professional Video Products  
Arrakis Systems  
Ashly Audio Inc  
ATI-Audio Technologies Inc  
Audio Bauer ProAG  
Audio Intervisual Design  
Audioscope srl

Auidix Broadcast Ltd  
BGW Systems Inc  
Biamp Systems  
Bogen Communications Inc  
Broadcast Devices Inc  
Broadcast Equipment & Parts  
Bryston  
CAudio  
CanfordAudio  
Chevin Research Ltd  
**Conex Electro Systems Inc**  
Continental Electronics Corp  
Crown International Inc  
Davicom Technologies Inc  
Dukane Corp  
Dynaudio Acoustics UK Ltd  
EDCOR Electronics  
EELAAudio  
Electro-Voice Inc  
EuroSonAmerica Inc  
FM Acoustics Ltd  
Focusrite Audio Eng Ltd  
Furman Sound Inc  
Gentner Communications Corp  
GP Enterprises Inc  
Group One Ltd  
Image Video/Div of 1077541 Ontario Ltd  
Industrial Strength Industries  
IRP Professional Sound Products  
IRT Electronics Pty Ltd  
Ivie Technologies Inc  
JBL Professional  
JNS Electronics Inc  
Tony Larking Pro Sales Ltd  
Lee Dan Communications Inc  
Link Electronics Inc  
Logitek Electronic Systems Inc  
Malcolm Hill Associates  
McCurdy Radio Industries Ltd  
Panasonic ProAudio/Ramsa  
Perfectone Corp SA  
Photomart Cine-Video Inc  
Fuller Manufacturing Inc  
Practel International Pty Ltd  
PRECO (Broadcast Systems) Ltd  
Prefer / Ummels bv  
ProTech Audio Corp  
QSC Audio Products Inc  
Radio Design Labs  
Ram Broadcast Systems  
RAMI  
Ramko Research  
Rane Corp  
Renkus-Heinz Inc  
Scantex Labs Inc  
Sescom Inc  
Shuttlesound Ltd  
Siel Sistemi Elettronici SRL  
Siemens AG Osterreich/Audio & Video Div  
Sonosax SA  
Sound Tech  
Spectra Sonics  
Michael Stevens & Partners Ltd  
Studer Professional Audio AG  
Symetrix  
Tally Display Corp  
TASCAM  
Television Systems Ltd  
Tel-Test Inc  
TOA Electronics Inc  
University Sound  
UREI  
Videoquip Research Ltd  
**Videotek Inc**  
Whirlwind  
Yamaha Corp

### CD Players

Accurate Sound  
Audio Bauer ProAG  
Audio Design  
BARCO-EMT GmbH/Audio Div  
Broadcast Equipment & Parts  
CanfordAudio  
Continental Electronics Corp  
Denon Electronics  
EuroSonAmerica Inc  
Fougerolle Audio/Video  
Full Compass Systems Ltd  
G Prime Ltd  
Gefen Systems  
Grozik Associates  
Kowa Optimed Inc  
The Management  
Marantz Professional  
Optical Media International

Photomart Cine-Video Inc  
PRECO (Broadcast Systems) Ltd  
Professional Management Services  
Richmond Sound Design Ltd  
Rorke Data Inc  
Stage Tech Developments AB  
Studer Professional Audio AG  
Studer Editech  
Superscope Technologies Inc/Marantz  
TASCAM  
Wide Range Electronics Corp

### Delay Systems & Devices

ADM Systems  
AETA  
Applied Research & Technology  
APS Professional Video Products  
Audio/Digital  
BARCO-EMT GmbH/Audio Div  
Biamp Systems  
**Digital Processing Systems Inc/DPS**  
DOD Electronics  
DTL Broadcast Ltd  
Electro-Voice Inc  
Eventide Inc  
G Prime Ltd  
Graham-Patten Systems  
Group One Ltd  
harmonia mundi acustia GmbH  
IRP Professional Sound Products  
**Leitch Inc**  
Merlin Engineering Works Inc  
Midax / Klark Teknik / DDA  
Georg Neumann GmbH  
NVision Inc  
OmniSound Corp  
Pacific Recorders & Engineering  
Panasonic ProAudio/Ramsa  
PRECO (Broadcast Systems) Ltd  
Questech  
Rane Corp  
Sample Rate Systems Oy  
Samson Technologies Corp  
Siemens Audio Co  
Sonifex Ltd  
Spectra Sonics  
Michael Stevens & Partners Ltd  
Symetrix  
TC Electronic A/S  
Tekniche Inc  
Vortex Communications  
Wiltronix Inc  
XTA Electronics Ltd

### Digital Audio Encoders, Decoders

Acutron Electroacustica Lda  
AEQ SA  
AETA  
AEV SRL  
Antex Electronics  
Apogee Electronics Corp  
Astroguide  
Audio Bauer ProAG  
Audio Intervisual Design  
Audio Processing Technology Ltd  
Axon Digital Design BV  
BARCO-EMT GmbH/Audio Div  
Broadcast Equipment & Parts  
C-COR Electronics Inc  
CCS Europe GmbH  
Circuit Research Labs Inc

## COMREX

Comrex Corp  
ComStream Corp/A Spar Co  
Corporate Computer Systems  
Denecke Inc  
Digigram  
Dolby Laboratories  
Evertz Microsystems Ltd  
Fraunhofer-Institut fur Integrierte  
Group One Ltd  
HES Electronics  
Integrated Network Corp  
International Datacasting Corp



# Product Directory

Summit Audio Inc  
Superscope Technologies Inc/Marantz  
Symetrix  
Tayo Industries  
TC Electronic A/S  
Technica Del'Arte bv  
Total Audio Concepts Ltd  
TV/Com International  
UREI  
Daniel Weiss Engineering Ltd  
Yamaha Corp  
Z-Systems

## Effects Processors

ADM Systems  
Alesis Corp  
AMS Neve PLC/A Siemens Co  
Applied Research & Technology  
Audio Bauer ProAG  
BARCO-EMT GmbH/Audio Div  
BBE Sound Inc  
Broadcast Equipment & Parts  
BSS  
Continental Electronics Corp  
Dimension Music and Sound  
Effects Inc  
DOD Electronics  
D&R Electronica b.v.  
Electro-Voice Inc  
Eventide Inc  
Full Compass Systems Ltd  
G Prime Ltd  
harmonia mundi acustia GmbH  
Klark Teknik  
Lexicon Inc  
Mark IV Pro Audio Group  
Midast/Klark Teknik/DDA  
Modulation Sciences  
Panasonic Pro Audio/Ramsa  
PRECO (Broadcast Systems) Ltd  
Professional Management Services  
Publison  
Questech  
Roland Pro Audio  
Rupert Neve  
Sample Rate Systems Oy  
Solidyne  
Sony Business & Professional Group  
Symetrix  
TC Electronic A/S  
Technica Del'Arte bv  
Yamaha Corp  
Z-Systems

## Equalizers

Alesis Corp  
AMEK Systems & Controls Ltd  
AMEK US Operations Inc  
Aphex Systems  
API-Audio Products Inc  
Applied Research & Technology  
Ashly Audio Inc  
ATI-Audio Technologies Inc  
Audio Bauer ProAG  
Audio Developments Ltd  
Audio Intervisual Design  
Audironics Inc  
AudiX Broadcast Ltd  
BARCO-EMT GmbH/Audio Div  
beyerdynamic  
Biamp Systems  
Broadcast Equipment & Parts  
BSS  
C Audio  
Calrec Audio Ltd  
CEDAR Audio Ltd  
Comband/Microwave Filter Co  
Continental Electronics Corp  
Danbridge A/S  
DOD Electronics  
D&R Electronica b.v.  
Drawmer Ltd  
Drawmer/QMI  
Dukane Corp  
Electro-Voice Inc  
Emo Systems Ltd  
Focusrite Audio Eng Ltd  
Focusrite Audio Engineering  
Furman Sound Inc  
G Prime Ltd  
Ghielmetti Kommunikationstechnik  
GML Inc  
GP Enterprises Inc  
Graham-Patten Systems  
Group One Ltd

Industrial Strength Industries  
IRP Professional Sound Products  
Ivie Technologies Inc  
JT Communications  
Klark Teknik  
Tony Larking Pro Sales Ltd  
Mark IV Pro Audio Group  
Micro Technology Unlimited  
Micro Audio Inc  
Midast / Klark Teknik / DDA  
Georg Neumann GmbH  
Panasonic Pro Audio/Ramsa  
Practel International Pty Ltd  
PRECO (Broadcast Systems) Ltd  
QMI  
Radio Design Labs  
Ramko Research  
Rane Corp  
Roland Pro Audio  
Sabine Inc  
Sample Rate Systems Oy  
Samson Technologies Corp  
Sascom Marketing Group  
SCV Audio  
Siemens AG Osterreich/Audio & Video Div  
Solid State Logic  
Solidyne  
Sonic Solutions  
Sony Business & Professional Group  
SoundTech  
Spectra Sonics  
Summit Audio Inc  
TC Electronic A/S  
TOA Electronics Inc  
Total Audio Concepts Ltd  
TTE Inc  
UREI  
Ward-Beck Systems Ltd  
Daniel Weiss Engineering Ltd  
White Instruments/C Van R  
XTA Electronics Ltd  
Yamaha Corp  
Z-Systems

## Headphones, Headsets

AKG Acoustics  
AKG Akustische und Kino-Geräte GmbH  
Anchor Communication/Porta-Com  
APS Professional Video Products  
Audio Bauer ProAG  
Audio Intervisual Design  
Audio-Technica US Inc  
Barbizon Light  
beyerdynamic  
Broadcast Devices Inc  
Broadcast Equipment & Parts  
Canford Audio  
David Clark Co Inc  
Clear-Com Systems  
Continental Electronics Corp  
Denon Electronics  
Dynatech Tactical Communications  
Fostex Corp  
Full Compass Systems Ltd  
GC Thorsen Inc  
GP Enterprises Inc  
HM Electronics Inc  
Koss Corp  
Nady Systems Inc  
OpTex  
Pacific Radio Electronics  
Perma Power Electronics Inc  
Philip Drake Electronics  
Photomart Cine-Video Inc  
Plantronics Inc  
PRECO (Broadcast Systems) Ltd  
Professional Sound Corp  
R-Columbia Products Co Inc  
Sennheiser elektronik KG  
Setcom Corp  
Stanton Magnetics Inc  
TASCAM  
Technical Projects Inc  
Telex Communications Inc  
TOA Electronics Inc  
Yamaha Corp

## Intercoms

AEQ SA  
Ampco Sound Lab (ASL)  
Anchor Communication/Porta-Com  
Audioarts Engineering  
Audironics Inc  
Bogen Communications Inc  
Canford Audio

David Clark Co Inc  
Clear-Com Systems  
Dateq Audio Technologies  
DTL Broadcast Ltd  
Fougerolle Audio/Video  
Full Compass Systems Ltd  
Fuller Mfg  
GP Enterprises Inc  
HES Electronics  
HM Electronics Inc  
IRT Electronics Pty Ltd  
ITI Electronics Inc  
JNS Electronics Inc  
JT Communications  
Lee Dan Communications Inc  
Ogenic Technologies  
PESA Electronica S.A.  
Philip Drake Electronics  
Photomart Cine-Video Inc  
Fuiler Manufacturing Inc  
Pro-Bel Inc  
Professional Sound Corp  
Radio Design Labs

# RAM

Ram Broadcast Systems  
R-Columbia Products Co Inc  
Setcom Corp  
Sierra Automated Systems Eng Corp  
Studio Technologies Inc  
Swintek  
Technical Projects Inc  
Television Engineering Corp  
Telex Communications Inc  
TOA Electronics Inc

# trilogy

Trilogy Broadcast Ltd  
Vega  
Vortex Communications  
Ward-Beck Systems Ltd  
Wheatstone Corp

## Microphones

**A Accessories, wind-screens, direct boxes, booms, stands**  
**B Boundary, surface-mounted**  
**H Hand-held, stand**  
**L Lavalier**  
**W Wireless**

Ac-cetera Inc A  
AKG Acoustics A, B, H, L, W  
AKG Akustische und Kino-Geräte GmbH A, B, H, L, W  
APS Professional Video Products A  
ATI-Audio Technologies Inc A  
Atlas/Soundolier - Atapco Security & Com A  
Audio Bauer ProAG A, B, H, L, W  
Audio Intervisual Design A, B, H, L, W  
Audio Ltd W  
Audio Limited USA W  
Audio-Technica US A, B, H, L, W  
AudiX Corp H, L, W  
Azden Corp H, W  
Barbizon Light A, L, W  
beyerdynamic A, B, H, L, N, W  
Black Audio Devices A  
Bogen Communications Inc A, H  
Broadcast Equipment & Parts A, B, H, L, W  
Canford Audio A, H, W  
C4 Audio Systems B  
Comtek Inc W  
Connectronics Corp A  
Continental Electronics Corp A  
Countryman Associates Inc A, B, L  
Crown International Inc A, B, H, L  
Danish Pro Audio ApS  
Brüel & Kjær A, H, L  
Drawmer/QMI H

Electro-Voice Inc A, H, L, W  
Emo Systems Ltd A  
Fostex Corp H  
Full Compass Systems Ltd A, B, H, L, W  
G Prime Ltd A, H  
Gold Line Inc A, B  
Alan Gordon Enterprises A, H, L, W  
GP Enterprises Inc A, B, H  
Group One Ltd A  
Har-Ken Specialties A  
HHB Communications Ltd H  
IRP Professional Sound Products B, H  
Koss Corp H  
Lakeside Associates Inc H  
Lectrosonics Inc W  
Light Wave Systems A  
LTM Corp of America A  
Mark IV Pro Audio Group A, B, H, L, W  
Micon Audio Products Ltd B, L, W  
Milab Microphones A, B, H  
Nady Systems Inc H, L, W  
Georg Neumann GmbH A, B, H  
Neumann USA A, B, H  
Neutrik USA Inc A  
OpTex A  
Pacific Radio Electronics A  
Panasonic Broadcast & Television W  
Panasonic Pro Audio Ramsa A, L, W  
Perma Power Electronics A, H, L, W  
Photomart Cine-Video A, B, H, L, W  
T R Pitts Co A  
Posthorn Recordings A, B, H, L  
PRECO (Broadcast Systems) Ltd A, B, H, L, W  
Prefer / Ummels bv A, H, L  
Pro Battery Inc A  
Professional Sound Corp A, B, H, L  
Quickset International Inc A  
Rapco International L  
Theodore A Rapp Associates Inc A  
RCI Systems Inc A  
Redding Audio Inc A  
The Rip-Tie Co A  
Rupert Neve H  
Samson Technologies Corp W  
Sanken Microphones L  
Schalltechnik Dr-Ing Schoeps GmbH A, B, H  
Sennheiser Electronic Corp A, B, H, L, W  
Sennheiser elektronik A, B, H, L, W  
Shure Brothers Inc A, B, H, L, W  
Shuttiesound Ltd A, B, H, W  
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Sony Broadcast Int'l A, H, L, W  
Sony Business & Professional Group H, L, S, W  
Soundfield Research Ltd A, B, H  
Spectra Sonics H, L, W  
SSL Industries Inc A, H, L, W  
Swintek L, W  
Systems Wireless Ltd H, L, W  
Tannoy/TGI North America A, H  
Telex Communications A, B, H, L, W  
TOA Electronics Inc H, W  
University Sound H  
Vega W  
Videoquip Research Ltd A  
Wave:Space Inc  
Whirlwind A  
Yamaha Corp

## MIDI Equipment

Akai Digital  
Alesis Corp  
Antex Electronics  
Audio Bauer ProAG  
Crookwood  
DOD Electronics  
D&R Electronica b.v.  
FutureVideo  
Alan Gordon Enterprises Inc  
JL Cooper Electronics  
Lone Wolf Corp  
OmniSound Corp  
Penny & Giles Inc  
Richmond Sound Design Ltd  
Roland Pro Audio

# Product Directory



Sealevel Systems Inc  
Softimage  
The Synclavier Co  
SOC Associates LP  
TASCAM  
Tayo Industries  
Valley Audio/Galaxy Audio  
Yamaha Corp  
Yamaha Corp of America

## Mixers, Audio

**O** On-air radio/TV  
**P** Portable, ENG, mic mixer  
**R** Production, recording, ESAM

Hallikainen & Friends Inc O, P  
Harrison by GLW O, R  
Henry Engineering R  
Image Video/Div of 1077541 Ontario Ltd O  
Intelix Corp O, P, R  
IRP Professional Sound Products P  
Ivie Technologies Inc

## JK Audio

### Remote Broadcast Gear

JK Audio P  
J-Lab P  
JLCooper Electronics R  
JT Communications O, P  
Kaitronics Corp P  
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MicroAudio Inc P  
Micron Audio Products Ltd P  
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Georg Neumann GmbH R  
NVision Inc O  
Ogenic Technologies O, P  
OpTex P  
Otari Corp O, R  
Pacific Recorders & Engineering O, P, R  
Panasonic Pro Audio/Ramsa O, R  
Photomart Cine-Video Inc O, P, R  
PRECO (Broadcast Systems) Ltd O, P, R



Prefer / Ummels bv P  
Pro-Bel Ltd O  
Professional Management Services O  
Professional Sound Corp O, P, R  
ProTech Audio Corp R  
QMI O  
Radio Design Labs P, R  
Radio Systems Inc O, R



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Ramko Research O, P, R  
Rupert Neve R  
Samson Technologies Corp R  
Sascom Marketing Group O, P, R  
Scantex Labs Inc R  
Schafer World Communications Corp O, R  
Seem Audio A/S O, P, R  
Sescom Inc P  
Siemens AG Osterreich/Audio & Video Div R  
Siemens Audio Co O, R  
Solid State Logic O, R  
Solidyne O, P, R  
Sonic Solutions R  
Sonifex Ltd O, R  
Sonosax SA O, P, R  
Sony Broadcast International R  
Sony Business & Professional Group O, P, R  
Sound Designers Studio P, R  
Sound Tech R  
Soundcraft Electronics O, P, R  
Soundtracs PLC R  
Spectra Sonics P, R  
Studer Editech O, P, R  
Studer Professional Audio AG O, R  
Superscope Technologies Inc/Marantz P  
Tactile Technology Inc

AAVS/Advanced Audio Visual Systemes O, R  
ADM Systems O, R  
AEQ SA O, P  
AEV SRL O  
Alesis Corp R  
Allen & Heath O, P, R  
Altec Lansing P  
AMEK Systems & Controls O, P, R  
AMEK US Operations Inc O, R  
AMS Neve PLC/A Siemens Co O, R  
API-Audio Products Inc  
Applied Research & Technology P  
APS Professional Video Products P, R  
Arrakis Systems O, R  
Ashly Audio Inc P, R  
ATI-Audio Technologies Inc O, P  
Audio Bauer Pro AG O, P, R  
Audio Developments Ltd P  
Audio Interview Design R  
Audio Ltd P  
Audio-Technica US Inc P, R  
Audioarts Engineering O, R  
Audironics Inc O, P, R  
Audix Broadcast Ltd O  
Autogram Corp O, P, R  
AVS Graphics Ltd R  
Azden Corp P  
BAF Communications Corp P  
Biamp Systems P, R  
Broadcast Electronics Inc O  
Broadcast Equipment & Parts O, P, R  
Calrec Audio Ltd O, P, R  
Canford Audio O, P, R  
Cellcast Communication Products P  
Computer Concepts Corp R  
Comrex Corp P  
Continental Electronics Corp O, P, R  
Cooper Sound Systems P, R  
Crookwood O, R  
Dateq Audio Technologies O, P, R  
Dav Tronics O, R  
DDA O, R  
DDA O, R  
Digital Audio Research Ltd R  
DOD Electronics O, P, R  
Doremi Labs Inc O, R  
D&R Electronica b.v. O, P, R  
Drawer/QMI O  
EELAAudio O, P, R  
Electric Works Corp R  
Electro-Voice Inc O, P, R  
Euphonix Inc R  
Fidelipac Corp O  
Focusrite Audio Engineering R  
For-A Co Ltd R  
Fostex Corp R  
Fougerolle Audio/Video O, R  
Full Compass Systems Ltd O, P, R  
Furman Sound Inc P  
G Prime Ltd R  
Gentner Communications Corp P  
GML Inc  
Alan Gordon Enterprises Inc R  
GP Enterprises Inc O  
Graham-Patten Systems R  
Group One Ltd R

## Transcoder Model CTC-2

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### Components to RGB



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### Transparent



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TASCAM P, R  
 Technica DelArte bv O, R  
 Telfax Communications P  
 Tel-Test Inc R  
 TOA Electronics Inc P, R  
 Total Audio Concepts Ltd O, P, R  
 Trident Audio Developments Ltd R  
 Unitronic O, P  
 Ward-Beck Systems Ltd O  
**Wheatstone Corp** O, R  
 Whirlwind P  
 Yamaha Corp P, R  
 Zaxcom R

## Pre-Amplifiers, Mic, Phono

AAVS/Advanced Audio Visual Systemes  
 ADM Systems  
 Aphex Systems  
 API-Audio Products Inc  
 Arrakis Systems  
 Ashly Audio Inc  
 ATI-Audio Technologies Inc  
 Audio Intervisual Design  
 Audiotronics Inc  
 Benchmark Media Systems Inc  
 Biamp Systems  
 Black Audio Devices  
 Bogen Communications Inc  
 Broadcast Devices Inc  
 Broadcast Equipment & Parts  
 Bryston  
 Calrec Audio Ltd  
 Canford Audio  
**Conex Electro Systems Inc**  
 Continental Electronics Corp  
 Cooper Sound Systems  
 Crookwood  
 DOD Electronics  
 D&R Electronica b.v.  
 Drawmer Ltd  
 DTL Broadcast Ltd  
 Dukane Corp  
 EDCOR Electronics  
 EELA Audio  
 Emo Systems Ltd  
 FM Acoustics Ltd  
 Focusrite Audio Engineering  
 Full Compass Systems Ltd  
 Ghielmetti Kommunikationstechnik  
 GML Inc  
 HES Electronics  
 Image Video/Div of 1077541 Ontario Ltd  
 Intelix Corp  
 IRP Professional Sound Products  
 ITI Electronics Inc  
 Jensen Transformers Inc  
 JNS Electronics Inc  
 Tony Larking Pro Sales Ltd  
 Logitek Electronic Systems Inc  
 Georg Neumann GmbH  
 Optex  
 Pacific Recorders & Engineering  
 Photomart Cine-Video Inc  
 Fuller Manufacturing Inc  
 Practel International Pty Ltd  
 PRECO (Broadcast Systems) Ltd  
 Prefer / Ummels bv  
 ProTech Audio Corp  
 Radio Design Labs  
 Ram Broadcast Systems  
 RAMI  
 Ramko Research  
 Rane Corp  
 Sascom Marketing Group  
 Scantex Labs Inc  
 SCVA Audio  
 Solid State Logic Inc  
 Solidyne  
 Sonosax SA  
 Spectra Sonics  
 Studer Professional Audio AG  
 Studio Technologies Inc  
 Summit Audio Inc  
 Superscope Technologies Inc/Marantz  
 Symetrix  
 Technica DelArte bv  
 Tekniche Inc  
 Tel-Test Inc  
 TOA Electronics Inc  
 University Sound  
 Valley Audio/Galaxy Ltd  
 Videoquip Research Ltd  
 Ward-Beck Systems Ltd

## Recording & Playback Products

**A Analog reel**  
**C Analog cartridge**  
**D Digital/all tape formats**  
**F Film**  
**K Disk recorders, digital, cart replacements**  
**P Duplicators, audio**  
**S Cassette, analog audio**

AAVS/Advanced Audio Visual Systemes K  
 Accom Inc K  
 Accurate Sound K, P, S  
 Akai Digital K  
 Alarmco  
 Albrecht Studiogeräte F  
 GmbH (MWA)  
 Alesis Corp D  
 Antex Electronics C, D, K  
 APS Professional Video Products  
**ASACA/ShibaSoku Corp of America** K  
 ASC Audio Video K  
 Audi-Cord Corp C  
 Audio Bauer Pro A, C, D, K, P, S  
 Audio Follow K  
 Audio Intervisual Design C  
 Aугan Instruments K  
 BARCO-EMT GmbH/Audio C, D, K  
 Broadcast Automation Inc A, C  
 Broadcast Cartridge Service A, C, S  
 Broadcast Electronics Inc C, K  
 Broadcast Equipment & Parts A, C, D, P, S  
 Broadcast Programming A, D  
 Canford Audio A, C, P, S  
 Cartworks K  
 C4 Audio Systems D  
 Computer Concepts Corp K  
 Continental Electronics Corp A, C, D, K, S  
 Denon Electronics C, K, P, S  
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 Digital Expressions Inc K  
 Digital Force P  
 Doremi Labs Inc K  
 Drawmer/QMI D  
 ENCO Systems Inc K  
**Ergo** A  
 Fast Forward Video K  
**Fiber Options Inc**  
**Fostex Corp** A, D, K, S  
 Full Compass Systems A, D, K, P, S  
 Gauss P  
 Alan Gordon Enterprises Inc A, S  
 Graff Electronic Machines Ltd P, S  
 HHB Communications Ltd D  
 International Tapetronics Corp C, K  
 JLC Cooper Electronics D, K  
 JVC P  
 KABA Research & Development D, K  
 The Management F  
 Management Graphics D, K, S  
 Marantz Professional K  
 McCurdy Radio Industries Ltd D  
 Media Touch Systems Inc K  
 Mediatron GmbH K  
 Micro Technology Unlimited D, K  
 Micropolis Corp K  
 Music Director Programming Service A, D  
 Nagra Kudelski SA A, D, K  
 Netia Digital Audio K  
 Otari Corp A, D, K, P  
 Pacific Recorders & Engineering C  
 Panasonic Pro Audio/Ramsa D  
 Perfectone Corp SA A, S  
 Philip Drake Electronics K  
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 PRECO (Broadcast Systems) Ltd A, C, D, K, P, S  
 Professional Management Services A, C, D, K, P, S  
 Prophet Systems Inc D  
 Publison D  
 QMI D  
 Questech  
 Radio Computing Services/RCS K  
 Radio Systems Inc K  
 Recognition Concepts Inc D, K  
 Roland ProAudio K

SADiE Inc K  
 Schafer World Communications Corp C  
 Scott Studios Corp D, K  
 Siemens Audio Co D  
 Sierra Design Labs K  
 Solidyne D  
 SONDOR Willy Hungerbühler A, F  
 Sonic Solutions K  
 Sonifex Ltd C, D, K  
 Sono-Mag Corp F  
 Sonosax SA D  
 Sony Broadcast International  
 Sony Business & Professional Group C, D, P, S  
 Sony Recording Media S  
 Spectral Inc D, K  
 Studer Editech A, D, K, S  
 Studer Professional Audio A, D, K, S  
 Studio Audio & Video Ltd/SADiE K  
 Superscope Technologies Inc/Marantz K, P, S  
 Tandberg Data Storage AS D, K, P, S  
 TASCAM A, C, D, P, S, S  
 Technica DelArte bv K  
 Texscan MSI D  
**360 Systems** K  
 TimeLine Vista Inc K  
 Unitronic K, P  
 Videoquip Research Ltd K  
 Yamaha Corp D, S  
 Zonal Ltd A, D, S

## Recording Heads

Audio Intervisual Design  
 Broadcast Equipment & Parts  
 Canford Audio  
 Fideipac Corp  
 Fougerolle Audio/Video  
 International Electro-Magnetics/IEM  
 JRF Magnetic Sciences Inc  
 Northern Magnetics Inc  
 Nortronic  
 Perfectone Corp SA  
 PRECO (Broadcast Systems) Ltd  
 Saki Magnetics Inc  
 Sprague Magnetics Inc  
 Studer Professional Audio AG  
 Studer Editech  
 Taber Mfg & Engineering Co  
 TASCAM

## Recording Tape

Adtec Audio Video Produkte GmbH  
 Agfa Corp  
 Ampex Media  
 Apogee Electronics Corp  
 Audio Bauer Pro AG  
 Audio Intervisual Design  
 Audiopak Inc  
 Broadcast Cartridge Service  
 Broadcast Equipment & Parts  
 Canford Audio  
 Carpel Video  
 Coarc Video  
 Continental Electronics Corp  
 Denon Electronics  
 DIC Digital  
 Fidelipac Corp  
 Alan Gordon Enterprises Inc  
 HHB Communications Ltd  
 Maxell Corp of America  
 Panasonic Pro Audio/Ramsa  
 Photomart Cine-Video Inc  
 Polyline Corp  
 PRECO (Broadcast Systems) Ltd  
 Sony Recording Media  
 Studio Film & Tape Inc  
 3MAudio and Video Markets Div  
 3M Professional A/V & Specialty Products  
 Video-Matic Group  
 Zonal Ltd

## Routing Switchers

AAVS/Advanced Audio Visual Systemes  
 Acutron Electroacustica Lda  
 Adrienne Electronics Corp  
 Amtel Systems Inc  
 Arrakis Systems  
**ASACA/ShibaSoku Corp of America**  
 Audio Bauer Pro AG  
 Audio Intervisual Design  
 Audix Broadcast Ltd



**AutoPatch/XN Technologies**  
 BEC Technologies Inc  
 Benchmark Media Systems Inc  
 Biamp Systems  
 Broadcast Equipment & Parts  
 Broadcast Video Systems Ltd  
**BTS Broadcast Television Systems**  
 Burk Technology Inc  
 Burst Electronics Inc  
 C4 Audio Systems  
**Conex Electro Systems Inc**  
**Datatek Corp**  
 DavTronics  
 Digipath Video Inc  
 Di-Tech Inc  
 DK-Audio  
 Drawmer/QMI  
 DT Electronics Ltd  
 DTL Broadcast Ltd  
 DYNAIR Electronics Inc  
 Dynatech Video Group  
 Extron Electronics  
 For-A Co Ltd  
 Fougerolle Audio/Video  
 FSR Inc  
 Full Compass Systems Ltd  
 G Prime Ltd  
 GEE Broadcast Systems Ltd  
 Gefen Systems

## GHIEMETTI

Ghielmetti Kommunikationstechnik  
 GP Enterprises Inc  
 Grass Valley Group  
 Group One Ltd  
**Henry Engineering**  
 IGM Communications  
 Image Video/Div of 1077541 Ontario Ltd  
 Inline Inc  
 Intelix Corp  
 Interface Engineering Corp  
 International Tapetronics Corp  
 IRP Professional Sound Products  
 IRT Electronics Pty Ltd  
 Ivie Technologies Inc  
 J-Lab  
 JNS Electronics Inc  
 JT Communications  
 Kaitronics Corp  
 Kramer Electronics  
**Leitch Inc**  
 Lighthouse/A Sundance Systems Co  
 Link Electronics Inc  
 Logitek Electronic Systems Inc  
 The Management  
 McCurdy Radio Industries Ltd  
 Miles Tek Inc  
**Multidyne Inc**  
 NBT/BSM Systems  
 Georg Neumann GmbH  
 Nova Systems Inc  
 NTP Elektronik A/S  
 NVision Inc  
 Ogenc Technologies  
 Opamp Labs Inc  
 Pacific Radio Electronics  
 Pacific Recorders & Engineering



**PESA Switching Systems Inc**  
 Philip Drake Electronics  
 Photomart Cine-Video Inc  
 Plasmech Systems Ltd  
 Practel International Pty Ltd  
 PRECO (Broadcast Systems) Ltd  
**Pro-Bel**  
 Professional Management Services  
 ProTech Audio Corp  
 QMI  
 Radio Design Labs  
 Ram Broadcast Systems

# Product Directory

RAMI  
Ramko Research  
Richmond Sound Design Ltd  
Sandar Electronics AS  
SAV  
Scantex Labs Inc  
SCVAudio  
Seem Audio A/S  
Shintron Co Inc  
Siemens AG Österreich/Audio & Video Div  
Sierra Automated Systems Eng Corp  
Sierra Video Systems Inc  
Sony Business & Professional Group  
Sprocket Digital  
Studer Professional Audio AG  
Target Technology Inc  
Tektronix Inc  
Telect Inc  
Tel-Test Inc  
**360 Systems**  
Titus Technological Labs  
TMT electronics AG  
Utah Scientific - Dynatech  
Videoquip Research Ltd  
**Vistek Electronics Ltd**  
Vortex Communications  
Daniel Weiss Engineering Ltd  
Wiltronix Inc

**Wohler Technologies**  
Integrative Audio Monitoring Systems  
**Wohler Technologies Inc**

## Speakers & Enclosures

A2T Production  
AAVS/Advanced Audio Visual Systems  
ACM: Akustik und Studioplanungs GmbH  
Acoustech  
Alesis Corp  
Altec Lansing  
Atlas/Soundolier - Atapco Security & Com  
Audio Bauer Pro AG  
Audio Intervisual Design  
Audi Corp  
Auerheimer Labs & Co  
Auratone Corp  
Beck Associates Inc  
BGW Systems Inc  
Broadcast Equipment & Parts  
Canford Audio  
**Clear-Com Systems**  
Community Professional Loudspeakers  
**Conex Electro Systems Inc**  
Continental Electronics Corp  
D&B Audiotechnik AG  
Drawmer/QMI  
Dukane Corp  
Dynaudio Acoustics UK Ltd  
EELA Audio  
Electro-Voice Inc  
**Fostex Corp**  
Fougerolle Audio/Video  
Frazier  
Genelec Oy  
Group One Ltd  
HHB Communications Ltd  
ITI Electronics Inc  
JBL Professional  
JNS Electronics Inc  
Koss Corp  
KRK Monitoring Systems  
Lakeside Associates Inc  
Tony Larking Pro Sales Ltd  
Malcolm Hill Associates  
Marantz Professional  
Keith Monks Sound Systems  
Nady Systems Inc  
Panasonic Pro Audio/Ramsa  
Perfectione Corp SA  
Perma Power Electronics Inc  
PHL Audio  
Photomart Cine-Video Inc  
Pioneer New Media Technologies  
Practel International Pty Ltd  
PRECO (Broadcast Systems) Ltd  
QMI  
Renkus-Heinz Inc  
SCVAudio  
Shuttlesound Ltd  
Sound Tech  
Spectra Sonics  
Michael Stevens & Partners Ltd  
Studer Professional Audio AG  
Tannoy  
Technomad Inc

Television Systems Ltd  
TOA Electronics Inc  
UREI  
Vandenberghe Profenex BV  
Videoquip Research Ltd  
Wave:Space Inc  
Westlake Audio

**Wohler Technologies**  
Integrative Audio Monitoring Systems

**Wohler Technologies Inc**  
Yamaha Corp

## Stereo Correctors, Synthesizers

ADM Systems  
Audio Bauer Pro AG  
AudioControl Industrial  
BARCO-EMT GmbH/Audio Div  
BFE Fennelme Technik & Elektronik AG  
Broadcast Equipment & Parts  
CEDAR Audio Ltd  
FM Systems Inc  
G Prime Ltd  
Ghielmetti Kommunikationstechnik  
JNS Electronics Inc  
Philip Drake Electronics  
Sample Rate Systems Oy  
Studio Technologies Inc  
Tayo Industries  
Titus Technological Labs  
Videoquip Research Ltd

## Transformers, Matching, Splitting

Altec Lansing  
Audio Bauer Pro AG  
Audio Intervisual Design  
Beck Associates Inc  
beyerdynamic  
Black Audio Devices  
Bogen Communications Inc  
Broadcast Equipment & Parts  
**Canare Cable Inc**  
Canford Audio  
Deerfield Laboratory  
D&R Electronica b.v.  
Eco Systems Ltd  
**ESE**  
FSR Inc  
Group One Ltd  
HES Electronics  
Intelix Corp  
ITI Electronics Inc  
Jensen Transformers Inc  
JK Audio  
Lundahl Transformers  
Georg Neumann GmbH  
North Hills Electronics Inc  
Photomart Cine-Video Inc  
PRECO (Broadcast Systems) Ltd  
QSC Audio Products Inc  
RAMI  
Ramko Research  
Rane Corp  
Solidyne

Spectra Sonics  
Studer Professional Audio AG  
Tannoy/TGI North America  
TASCAM  
Teracom Components AD  
University Sound  
Videoquip Research Ltd

## Telephone Bandwidth Extenders

AEQ SA  
AETA  
Broadcast Equipment & Parts  
Comrex Corp  
Gentner Communications Corp  
PRECO (Broadcast Systems) Ltd  
Solidyne  
Tayo Industries  
Vortex Communications

## Telephone Hybrids

AAVS/Advanced Audio Visual Systems  
AEQ SA  
AEV SRL  
Audio Intervisual Design  
Audi Broadcast Ltd  
Broadcast Equipment & Parts  
Comrex Corp  
Dateq Audio Technologies  
D&R Electronica b.v.  
EELA Audio  
Fougerolle Audio/Video

## Gentner

Gentner Communications Corp  
IRP Professional Sound Products  
ITI Electronics Inc  
JK Audio  
JT Communications  
**Lectrosonics Inc**  
NTP Elektronik A/S  
N Vision Inc  
Ogenic Technologies  
Photomart Cine-Video Inc  
Plasmec Systems Ltd  
Fuller Manufacturing Inc  
PRECO (Broadcast Systems) Ltd  
Professional Sound Corp  
Radio Systems Inc  
RAMI  
R-Columbia Products Co Inc  
Solidyne  
Sonifex Ltd  
Studer Editech  
Studer Professional Audio AG  
Swintek  
Telos Systems  
Vortex Communications

## Time Modification Eqpt

Audio Intervisual Design  
Digigram  
Lexicon Inc  
Micro Technology Unlimited  
Ogenic Technologies

PRECO (Broadcast Systems) Ltd  
Solidyne  
Sonic Solutions  
Sony Business & Professional Group  
Spectral Inc  
Tayo Industries  
**360 Systems**  
TimeLine Vista Inc

## Turntables & Cartridges, Phono

Audio-Technica US Inc  
BARCO-EMT GmbH/Audio Div  
Broadcast Equipment & Parts  
Canford Audio  
Continental Electronics Corp  
Denon Electronics  
EELA Audio  
Full Compass Systems Ltd  
Photomart Cine-Video Inc  
PRECO (Broadcast Systems) Ltd  
Stanton Magnetics Inc

## Video Products

## Amplifiers, Distribution

AAVS/Advanced Audio Visual Systems  
Allen Avionics Inc  
Alpha Image Ltd - Dynatech  
APS Professional Video Products  
**ASACA/ShibaSoku Corp of America**  
Audio Intervisual Design  
Avitel Electronics Ltd  
BAL Broadcast Ltd  
**BTS Broadcast Television Systems**  
Burl Industries Inc  
Burst Electronics Inc  
Dwight Cavendish Co  
Channelmatic Inc  
Communications Specialties Inc  
**Datatek Corp**  
Davicom Technologies Inc  
**Digital Processing Systems Inc/DPS**  
Di-Tech Inc  
DTL Electronics Ltd  
DYNAIR Electronics Inc  
Elantec Inc



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# Product Directory

FM Systems Inc  
For-A Co Ltd  
GEE Broadcast Systems Ltd  
GP Enterprises Inc  
Grass Valley Group  
HEDCO  
**HORITA**  
Image Video/Div of 1077541 Ontario Ltd  
Inline Inc  
IRT Electronics Pty Ltd  
J-Lab  
Kaitronics Corp  
Knox Video  
Kramer Electronics  
Tony Larking Pro Sales Ltd  
**Leitch Inc**  
Link Electronics Inc  
Matthey Electronics  
McCurdy Radio Industries Ltd  
Mira Vision Inc  
Miranda Technologies Inc  
Modulation Sciences  
Monroe Electronics Inc



**Multidyne Inc**  
NBT/BSM Systems  
Network Technologies Inc  
Nova Systems Inc  
Omicron Video  
Opamp Labs Inc  
Pacific Radio Electronics  
PESA Electrónica S.A.



**PESA Switching Systems Inc**  
Philip Drake Electronics  
Philips Broadband Networks Inc  
**Pixel Instruments Corp**  
Practel International Pty Ltd  
**Pro-Bel Ltd**  
ProTechAudio Corp  
Radio Design Labs  
RE  
Ross Video Ltd  
Sandar Electronics AS  
SAV  
Scantex Labs Inc  
Shintron Co Inc  
Sierra Video Systems Inc  
Sigma Electronics Inc  
Snell & Wilcox  
ST Keltec Corp  
Target Technology Inc  
Tech Electronics Inc  
Tekniche Inc  
Telect Inc  
Television Equipment Associates  
Tel-Test Inc  
**Thomson Broadcast Inc**  
Toko America Inc  
Trilogy Broadcast Ltd  
TV Equipment - Matthey  
TV One Multimedia Solutions  
Utah Scientific - Dynatech  
VGV Inc (Video Gainesville)  
Vicon Industries Inc  
**Video Accessory Corp**  
Videoquip Research Ltd  
**Videotek Inc**  
Videonics Inc  
**Vistek Electronics Ltd**  
Vortex Communications  
Wiltronix Inc

## Animation Eqpt

Accu-Weather Inc  
APS Professional Video Products  
Aurora/Chyron Corporation  
**AVID Technology Inc**  
AVS Graphics Ltd  
BCD Associates Inc  
C-COR Electronics Inc  
CoSA-The Company of Science & Art  
Data Translation/MultiMedia Group

Diaquest Inc  
**Digital Processing Systems Inc/DPS**  
Discreet Logic  
Dynatech Video Group  
Electric Image Inc  
FAST Electronic  
FAST Multimedia  
Fast Forward Video  
GEE Broadcast Systems Ltd  
Getris Images  
Alan Gordon Enterprises Inc  
Intelligent Resources  
Integrated Systems  
Intervideo  
JLCooper Electronics  
KUB Systems  
Laurentel Systems Inc  
Linker Systems Inc  
Matrox Electronic Systems  
Microtime Inc  
Neilson-Hordell Ltd  
Oxbery  
Parallax Graphics Systems Ltd  
Pinnacle System  
**Quantel Inc**  
Questech  
Recognition Concepts Inc  
Ringwood Associates Ltd

## Scitex Digital Video

Scitex Digital Video  
(formerly *Abekas Video Systems* and *ImMix*)  
Sierra Design Labs  
Snell & Wilcox  
Softimage  
Spaceward Graphics Ltd  
ULTIMATE Corp  
VAS Group Inc  
Vertigo Technology  
Viewpoint DataLabs  
Visionetics Int'l  
Wavefront Technologies  
WeatherNewsAmerica  
WSI Corp  
XAOS Tools  
Yamashita Engineering Mfg Inc

## Camera Cables

AAVS/Advanced Audio Visual Systemes  
APS Professional Video Products  
Avech Systems Inc  
**Belden Wire & Cable Company**  
**BTS Broadcast Television Systems**



**Canare Cable Inc**  
Carmen Abato Enterprises Inc/CAE  
Clark Wire & Cable  
Cole Wire & Cable Co Inc  
Entertainment Technology Cable Inc



GEPCO INTL INC  
CHICAGO, IL

**Gepco International Inc**  
Hitachi Denshi America Ltd  
Marshall Electronics Inc  
MilesTek Inc  
Mogami / Mit Inc  
Nemal Electronics Int'l Inc  
Newark Electronics  
Panasonic Broadcast & Television  
PERROT 'The Battery People'  
Photomart Cine-Video Inc  
Prefer / Ummels bv  
Rapco International  
Rathbone Energy Systems Inc  
**Thomson Broadcast Inc**  
Trompeter Electronics Inc

## Cameras, Film & Film Editors

Arriflex Corp  
**AVID Technology Inc**  
BCD Associates Inc

Alan Gordon Enterprises Inc  
Innovation Optics  
Keystone Metal Products Inc  
Lightworks/USA  
Neilson-Hordell Ltd  
Sony Business & Professional Group  
Steenbeck Inc

## Camera, Video/TV

**C Camcorder, 1-piece camera/recorder systems**

**H HDTV**  
**P ENG/EFP/Portable**  
**W Still video systems**  
**S Studio**

APS Professional Video Products C, H, P, S  
**AVID Technology Inc** P  
Avech Systems Inc C  
Bencher Inc C  
**BTS Broadcast Television Systems C, H, P, S**  
Canon USA Inc C  
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Panasonic Broadcast & Television C, P, S  
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Philips Broadband Networks Inc C, F  
Sanyo C  
Sharp Electronics Corp C, H, P, S  
Sony Broadcast Int'l P  
Television Engineering Corp P  
Telex Communications Inc P  
**Thomson Broadcast Systems C, H, P, S**  
**Thomson Broadcast Inc C, H, P, S**  
Toleto Fastners Int'l/Cord-Lox B, C  
**Toshiba Corp C, H, P, S**  
Visual Methods Inc C

## Camera Imaging Devices

Avech Systems Inc  
**BTS Broadcast Television Systems**  
Daily Electronics Corp  
EEV  
EEV Ltd  
Elmo Mfg Corp  
Image Devices Int'l  
MII  
Nytone Inc  
Philips Components  
Sony Business & Professional Group  
Superscope Technologies Inc/Marantz  
Teltron Technologies Inc  
Thor Electronics Corp  
**Toshiba Corp**  
Video Engineering Ltd

## Camera Remote Controls

AMX Corp  
APS Professional Video Products  
**BTS Broadcast Television Systems**  
CH Products  
Cole Wire & Cable Co Inc  
Concept W Systems Inc  
Crestron  
CSI Camera Support International  
Force Inc  
Alan Gordon Enterprises Inc  
GP Enterprises Inc  
Hitachi Denshi America Ltd  
Innovation Optics  
J-Lab  
JVC  
Neilson-Hordell Ltd

News/Sports Microwave Rental Inc  
Nytone Inc  
OpTex  
Panasonic Broadcast & Television  
Radamec EPO Ltd  
Radamec Inc  
The M S Russin Group Inc  
Sony Business & Professional Group  
Telemetrics Inc  
**Thomson Broadcast Inc**  
Troll Technology Corp  
Tron-Tek Inc  
Vicon Industries Inc

# Vinten

Vinten TSM  
Wescam Inc

## Camera Stabilizers

Aerial Films Inc  
APS Professional Video Products  
Canon USA Inc  
Carter Cartop Mfg Co  
Cinekinetic  
Cinema Products Corp  
CSI Camera Support International  
FSR Inc  
Alan Gordon Enterprises Inc  
OpTex  
Photomart Cine-Video Inc  
Wescam Inc

## Camera Support, Position Products

**C Copy stands**  
**D Pedestals, tripods, dollies, cranes,**  
**T Pan/tilt heads**

Amtel Systems Inc T  
AMX Corp T  
APS Professional Video Products Q, D, T  
Arriflex Corp T  
Bogen Photo Corp D  
CamMate Systems/Studios D, T  
Canon USA Inc D, T  
CH Products T



Chapman/Leonard Studio Equipment Co. D  
Chapman/Leonard Studio & Production D, T  
Cinekinetic D, T  
Cinema Products Corp D, T



CSI Camera Support Int'l D, T  
Eagle Systems D  
Fujinon Inc T  
Alan Gordon Enterprises Inc D, T  
Innovation Optics D, T



**Kart-A-Bag D**  
Keystone Metal Products Inc D  
K&H Products Ltd D  
Light Wave Systems  
The Lightmaker Co/Camera Platforms nt/ID, T  
Peter Lisand Corp D, T  
Matthews Studio Group/ITE D, T  
Miller Fluid Heads D  
Nalpak Video Sales Inc C, T  
Neilson-Hordell Ltd C, T  
News/Sports Microwave Rental Inc D, T





# Product Directory

CoSA-The Company of Science & Art  
D-Vision Systems Inc  
Data Translation/MultiMedia Group  
Diaquest Inc  
Digital Graphix  
Discreet Logic  
ECHOlab Inc  
EMC - Dynatech  
FAST Electronic US Inc  
FAST Multimedia  
Feral Industries  
For-A Co Ltd  
FougerolleAudio/Video  
GEE Broadcast Systems Ltd  
Getris Images  
Grass Valley Group  
James Grunder & Associates Inc  
JLCooper Electronics  
JVC  
KUB Systems  
Newtek Inc  
Parallax Graphics Systems Ltd  
Pinnacle System  
**Quantel Inc**  
Questech

## Scitex

### Digital Video

Scitex Digital Video  
(formerly *Abekas Video Systems & ImMix*)

#### SNELL & WILCOX

Snell & Wilcox  
Softimage  
Sony Broadcast International  
Sony Business & Professional Group  
**Toshiba Corp**  
VideoFusion Ltd Partnership  
Videonics  
Wavefront Technologies  
XAOS Tools

### Editing Controllers

Accom Inc  
Adams-Smith  
ADCOM Electronics  
Ampex Corp  
Amtel Systems Inc  
APS Professional Video Products  
ASC Audio Video  
Audio Kinetics UK Ltd  
AVS Graphics Ltd  
Broadcast Electronic Services  
**BTS Broadcast Television Systems**  
Calaway Editing - Dynatech  
Chyron Corp  
CMX/Chyron Group  
Diaquest Inc  
Doremi Labs Inc  
Dynatech Video Group  
Eastman Kodak Co  
Editing Technologies Corp/ETC  
Ensemble Designs  
FAST Electronic US Inc  
FAST Multimedia  
Fast Forward Video  
For-A Co Ltd  
FutureVideo  
Grass Valley Group  
Imagine Products Inc  
JVC Professional Products Co  
JVC  
Lightworks/USA  
Matrox Electronic Systems  
Montage Group Ltd  
NTSC Productions  
Panasonic Broadcast & Television



**Quantel Inc**  
RGB Computer & Video  
Ringwood Associates Ltd  
SADIE Inc  
Scitex Digital Video (formerly *ImMix*)  
Sierra Design Labs  
Sony Broadcast International

Sony Business & Professional Group  
Strassner Editing Systems  
Sundance Digital Inc  
Technical Aesthetics Operations/TAO  
Tel-Test Inc  
**Thomson Broadcast Inc**  
TimeLine Vista Inc  
TV One Multimedia Solutions  
United Media  
Videomedia Inc  
Videonics

### Encoders, Decoders

AAVS/Advanced Audio Visual Systemes  
Accom Inc  
AETA  
Alpha Image Ltd - Dynatech  
APS Professional Video Products  
**ASACA/ShibaSoku Corp of America**  
BAL Broadcast Ltd  
Broadcast Systems Design  
Broadcast Video Systems Ltd  
**BTS Broadcast Television Systems**  
Burst Electronics Inc  
Channelmatic Inc  
Communications Specialties Inc  
Compression Labs  
ComtechAntenna Systems Inc  
Digipath Video Inc  
DT Electronics Ltd  
DTL Broadcast Ltd  
DVS GmbH/Digitale Videosysteme  
Elantec Inc  
Ensemble Designs  
Extron Electronics  
**Faroudja Laboratories Inc**  
Feral Industries  
Folsom Research  
For-A Co Ltd  
FougerolleAudio/Video  
GEE Broadcast Systems Ltd  
Grass Valley Group  
Hamlet Video International Ltd  
I-Den Videotronics Inc  
Inline Inc  
Instant Replay  
Intelligent Resources Integrated Systems  
Intelvideo Inc  
James Grunder & Associates Inc  
Kramer Electronics  
**Leitch Inc**  
Link Electronics Inc  
LNR Communications Inc  
**Macrovision Corp**  
MicroVideo Ltd  
Microwave Filter Co Inc  
Mira Vision Inc  
Miranda Technologies Inc  
MMS GmbH  
Nova Systems Inc  
Omicron Video  
Optibase Inc  
OptImage  
Philips TV Test Equipment  
Photron (P E Photron)  
Prime Image Inc  
**Pro-Bel Ltd**  
Quanta Corp - Dynatech  
Questech  
Raytheon Semiconductor  
RE America Inc  
RE Holding A/S  
RGB Spectrum  
SAV  
Scientific-Atlanta  
Scitex Digital Video  
(formerly *Abekas Video Systems*)  
Shintron Co Inc  
Sierra Design Labs  
Sigma Electronics Inc

#### SNELL & WILCOX

Snell & Wilcox  
Sony Business & Professional Group  
System Video  
Tekniche Ltd  
**Thomson Broadcast Systems**  
Tiernan Communications  
Toko America Inc  
Transvideo SA  
TV One Multimedia Solutions  
VAS Group Inc  
Video Int'l Development Inc  
**Vistek Electronics Ltd**  
Vortex Communications

Wiltronix Inc  
Y/C Plus Inc

### Filters, Optical

Barbizon Light  
Electrophysics Night Vision  
F Prime Optics  
Alan Gordon Enterprises Inc  
Lee Filters Ltd  
Marshall Electronics Inc  
L E Nelson Sales Corp  
**Nikon Inc**  
OpTex  
Photomart Cine-Video Inc  
Rosco Labs Inc

### Format Translators

AAVS/Advanced Audio Visual Systemes  
Alpha Image Ltd - Dynatech  
APS Professional Video Products  
Avitel Electronics Ltd  
Broadcast Video Systems Ltd  
ComtechAntenna Systems Inc  
Digital Vision (DV Sweden AB)  
DT Electronics Ltd  
DTL Broadcast Ltd  
Elantec Inc  
FM Systems Inc  
Folsom Research  
For-A Co Ltd  
Grass Valley Group  
I-Den Videotronics Inc  
Intelligent Resources Integrated Systems  
J-Lab  
**Leitch Inc**  
Microtime Inc  
Nova Systems Inc  
Prime Image Inc  
Snell & Wilcox  
Sony Business & Professional Group  
Tekniche Ltd  
**Thomson Broadcast Inc**  
Transvideo SA  
Video Int'l Development Inc  
**Vistek Electronics Ltd**  
Vortex Communications  
Wiltronix Inc

### Generators, Safe Area, Source ID

AAVS/Advanced Audio Visual Systemes  
**ASACA/ShibaSoku Corp of America**  
Boland Communications  
Broadcast Video Systems Ltd  
Burst Electronics Inc  
ComtechAntenna Systems Inc  
DT Electronics Ltd  
DTL Broadcast Ltd  
**ESE**  
GP Enterprises Inc  
**Gray Engineering Labs Inc**  
Hamlet Video International Ltd  
**HORITA**  
Image Video/Div of 1077541 Ontario Ltd  
**Leitch Inc**  
Link Electronics Inc  
Magni Systems  
MicroVideo Ltd



**Multidyne Inc**  
Practel International Pty Ltd  
QSI Systems Inc  
Sigma Electronics Inc  
Sprocket Digital  
Tally Display Corp  
Tektronix Inc  
Transvideo SA  
**Video Accessory Corp**  
Video Data Systems  
Videotek Research Ltd  
Vortex Communications  
Wiltronix Inc

### Graphics Systems

Accom Inc  
Accu-Weather Inc  
Alias Research Corp  
APS Professional Video Products

Aurora/Chyron Corporation  
Automated Weather Source  
AVS Graphics Ltd  
Aydin Controls  
Baron Services Inc  
Chyron Corp  
CoSA-The Company of Science & Art  
D-Vision Systems Inc  
Diaquest Inc  
Digital Graphix  
Display Systems Int'l Inc  
Dynatech Video Group  
Getris Images  
InnoVision Technology  
Inscriber Character Generator  
Intergraph Computer Systems  
Interlace Engineering Corp  
JLCooper Electronics



KUB Systems  
Laurentel Systems Inc  
Linker Systems Inc  
Matrox Electronic Systems  
Media Computing Inc  
MMS GmbH  
Newtek Inc  
Parallax Graphics Systems Ltd  
Photron (P E Photron)  
Pinnacle System  
Pixel Power Ltd  
QSI Systems Inc  
**Quantel Inc**  
Softimage  
Spaceward Graphics Ltd  
Teledac Inc  
**Thomson Broadcast Inc**  
Truevision/Raster Ops  
TV One Multimedia Solutions  
Verligo Technology  
Video Data Systems  
Visionetics Int'l  
Wavefront Technologies  
WSI Corp  
XAOS Tools  
Yamashita Engineering Mfg Inc

### Hardcopy Printers, Video

Diaquest Inc  
GEE Broadcast Systems Ltd  
**Hewlett-Packard Co**  
ict GmbH  
Imagine Products Inc  
Panasonic Broadcast & Television  
Perfectone Corp SA  
Sharp Electronics Corp  
Sony Broadcast International  
Sony Business & Professional Group  
Teledac Inc

### HDTV, ATV Eqpt

ADTT (Advanced Digital Television Technologies)  
**ASACA/ShibaSoku Corp of America**  
Astre Systems Inc  
**BTS Broadcast Television Systems**  
Digital Vision (DV Sweden AB)  
DVS GmbH/Digitale Videosysteme  
Eastman Kodak Co  
**Faroudja Laboratories Inc**  
Force Inc  
ict GmbH  
JVC  
Keystone Metal Products Inc  
Mira Vision Inc  
NTL  
Omicron Video  
**Quantel Inc**  
Rank Cintel Ltd  
Snell & Wilcox  
Sony Business & Professional Group  
**Thomson Broadcast Inc**  
**Toshiba Corp**  
VAS Group Inc  
Viewgraphics

### Keyers

AAVS/Advanced Audio Visual Systemes  
Alpha Image Ltd - Dynatech  
APS Professional Video Products  
Broadcast Video Systems Ltd

# Product Directory

Comtech Antenna Systems Inc  
 DT Electronics Ltd  
 EMC - Dynatech  
 Ensemble Designs  
 For-A Co Ltd  
 GP Enterprises Inc  
 Image Video/Div of 1077541 Ontario Ltd  
 Interface Engineering Corp  
 J-Lab  
 JVC  
**Leitch Inc**  
 MicroVideo Ltd  
 Praciel International Pty Ltd  
**Pro-Bel Ltd**  
**Quantel Inc**  
 Questech  
 SAV  
 Snell & Wilcox  
 Tel-Test Inc  
**Thomson Broadcast Systems**  
 TV One Multimedia Solutions  
 ULTIMATTE Corp  
 VGV Inc (Video Gainesville)  
 Videonics  
**Vistek Electronics Ltd**  
 Vortex Communications

## Lighting Instruments, Kits

### S Screens, non-electronic illumination control devices/reflectors

Anton/Bauer Inc  
 APS Professional Video Products  
 Arriflex Corp  
 Balcar  
 Barbizon Light  
 Bardwell & McAlister Inc  
 Broadcast Marketing Int'l Ltd  
 CAE Inc/Littlite  
 Chimera  
 Cine 60 Inc  
 Colortran Inc  
 Dedotec USA Inc  
 Desliti Lighting/Desmar  
 Flash Technology Corp of America  
 G&M Power Products  
 Alan Gordon Enterprises Inc  
 Group One Ltd  
 Keystone Metal Products Inc  
 K5600 Inc  
 Kobold Licht/Beleuchtungstechnik  
 Lee Filters Ltd  
 Leonetti Company  
 Lighttech Group Inc

# lowel®

Lowel-Light Mfg Inc  
 LTM Corp of America  
 Lumitrol Ltd  
 Mole-Richardson Co  
 NRC Research  
 Packaged Lighting Systems Inc  
 PEP Inc  
 Premier Lighting & Production Co  
 Sachtler AG  
 Sinar Bron  
 Strand Lighting Inc  
 Theatre Service & Supply Corp  
 Videssence  
 Vincent Lighting Systems Co  
**Vistek Electronics Ltd**  
 Walter Brewer Corp  
 F J Westcott Co

## Lamps, Studio & Projection

Ac-cetera Inc  
 Adcour Inc  
 APS Professional Video Products  
 Barbizon Light  
 Dedotec USA Inc  
 Frezzolini Electronics Inc  
 Alan Gordon Enterprises Inc  
 Gray Supply Co  
 The Great American Market  
 Group One Ltd  
 HPG Industries (Sharb Electronics)  
 ILC Technology

Koto Luminous Corp  
 LTM Corp of America  
 Lumitrol Ltd  
 Mole-Richardson Co  
 L E Nelson Sales Corp  
 OpTex  
 Osram Sylvania Inc  
 Packaged Lighting Systems Inc  
 Philips Lighting  
 Photomart Cine-Video Inc  
 Premier Lighting & Production Co  
 Pro Battery Inc  
 Sachtler AG  
 George R Snell Associates  
 Strand Lighting Inc  
 Theatre Service & Supply Corp  
 Vantage Lighting Inc  
 Vincent Lighting Systems Co

## Lighting Consoles & Dimmers

Ac-cetera Inc  
 Barbizon Light  
 Bardwell & McAlister Inc  
 Colortran Inc  
 Dove Systems  
 Electronics Diversified Inc  
 Entertainment Technology Cable Inc  
 The Great American Market  
 Group One Ltd  
 Leprecon/CAE Inc  
 LTM Corp of America  
 Lumitrol Ltd  
 Packaged Lighting Systems Inc  
 Premier Lighting & Production Co  
 Richmond Sound Design Ltd  
 Sachtler AG  
 Strand Lighting Inc  
 Theatre Service & Supply Corp  
 Vincent Lighting Systems Co

## Lens Systems

Alpine Optics Inc

Angenieux SA  
 APS Professional Video Products  
 Arriflex Corp  
 Avtech Systems Inc  
 Canon USA Inc  
 Century Precision Optics  
 Electrophysics Night Vision  
 Elmo Mfg Corp  
 F Prime Optics  
 Fujinon Inc  
 Alan Gordon Enterprises Inc  
 Innovation Optics  
 Marshall Electronics Inc  
**Nikon**  
 OpTex  
 Photomart Cine-Video Inc  
 Tamron Industries Inc  
 Tiffen Mfg Corp  
 Vicon Industries Inc  
 Visual Methods Inc

## Monitors, Video

H HDTV  
 R Mono, Color  
 S Sunshades  
 W Videowalls  
 Z Replacement, Rebuilt CRTs

APS Professional Video Products  
**ASACA/ShibaSoku Corp of America**  
 Barco Inc  
**BTS Broadcast Television Systems**  
 Comtech Antenna Systems Inc  
 Dotronix Inc  
 EEV Ltd  
 Electronic Visuals  
 Elmo Mfg Corp  
 Feral Industries  
 Hoodman Corp  
 ict GmbH  
 Ikegami Electronics (USA) Inc

James Grunder & Associates Inc  
 JVC Professional Products Co  
 Light Wave Systems  
 Melford Electronics Ltd  
 Mitsubishi Imaging Products Electronics  
 MultiVideo Image Display Co  
 OpTex  
 Panasonic Broadcast & Television  
 PESA Electronica S.A.  
 Photomart Cine-Video Inc  
 Pioneer New Media Technologies Inc  
 Sharp Electronics Corp  
 Sony Broadcast International  
 Sony Business & Professional Group  
**Sumitomo Electric USA Inc**  
**Toshiba Corp**  
 Transvideo SA  
 Video Display Corp  
 Video Visions Inc/Delcom  
**Videotek Inc**  
 Viewgraphics  
 Virtual Vision Inc  
**Vistek Electronics Ltd**  
 Wiltronix Inc

## Optical Disc Systems

A Analog, Recorders, players  
 D Digital, Recorders, players

Optical Disc Corp  
 Panasonic Broadcast & Television  
 Pioneer New Media Technologies  
 Sony Broadcast & Professional

## Prompting Systems, Software

APS Professional Video Products  
 Audio Video Design Inc  
 Autocue Ltd  
 BDL Autocript  
 Beacon Software Inc

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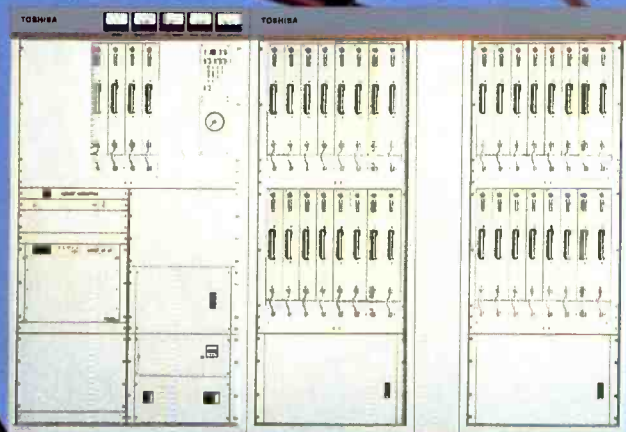
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Boasting superb MTBF ratings, the TOSHIBA 2000 series Solid State UHF/VHF Transmitters offer a broad range of power output from 1kW to 40kW that are built to satisfy the demanding requirements of any television station setup.

Innovative TOSHIBA original technology has developed a highly efficient RF power MOSFET. And in-house production of key components assures exceptional reliability and stability. All TOSHIBA transmitter components are lightweight and built with solid state architecture to reduce overall running costs. Front access modular design provides quick and simple maintenance for reduced downtime and improved cost efficiency.

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TOSHIBA CORPORATION International Business Department  
Electronics & Telecommunication Systems Group

1-1, Shibaura 1-chome, Minato-ku, Tokyo, 105 Japan Phone: (03)3457-3244, Fax: (03)5444-9333, Telex: J22587

Circle (55) on Reply Card



# Product Directory

Grass Valley Group M, P  
 Image Video/Div of 1077541 Ontario Ltd M  
 J-Lab P  
 JVC P  
 Kramer Electronics P  
 MATCO Inc M  
 McCurdy Radio Industries Ltd M  
 Multidyne Inc P  
 Ogenic Technologies M  
 Panasonic Broadcast & Television M, P  
**PESA Switching Systems Inc** M  
**Pixel Instruments Corp** P  
 Practel International Pty Ltd M, P  
**Pro-Bel** M  
**Quantel Inc** P  
 Ross Video Ltd P  
 SAV M

Interlace Engineering Corp U  
 IRIS Technologies Inc T, U  
 IRT Electronics Pty Ltd U  
 Kaitronics Corp T, U  
 Knox Video T  
 Kramer Electronics T  
**Leightronix Inc** T  
**Leitch Inc** T, U  
 Lighthouse Digital Systems T  
 Link Electronics Inc U  
 Meret Optical Communications Inc U  
 MicroVideo Ltd U  
 Miranda Technologies Inc U  
 Monroe Electronics Inc U

Intelvideo Inc U  
**Leader Instruments Corp** T, U  
**Leitch Inc** U  
 Link Electronics Inc T, U  
 Magni Systems T  
 MicroVideo Ltd T

Transvideo SA U  
**Videotek Inc** U  
**Vistek Electronics Ltd** U  
 Vortex Communications T  
 Wiltronix Inc U  
 Zaxcom U

## Telecine Systems

Albrecht Studiogeräte GmbH (MWA) U  
**AVID Technology Inc** U  
**BTS Broadcast Television Systems** U  
 Buhl Optical Co U  
 Da Vinci Systems - Dynatech U  
 DGS/Digi-Grade Systems Ltd U  
 Elmo Mfg Corp U  
 Evertz Microsystems Ltd U  
 Imagica Corp U  
 L-W Athena Inc U  
 Pandora International Ltd U  
 Perfectone Corp SA U  
 Rangertone Research U  
 Rank Cintel Ltd U  
 Snell & Wilcox U  
 SONDOR Willy Hungerbühler AG U  
 Steenbeck Inc U  
 Tamron Industries Inc U  
 TokoAmerica Inc U  
 Video Engineering Ltd U



**Multidyne Inc** U  
 Network Technologies Inc T  
 NVision Inc T, U  
 Pacific Coast Marketing U  
 Philips TV Test Equipment T  
 Practel International Pty Ltd T, U  
**Pro-Bel** U  
 PTL Cable Service T  
 QSI Systems Inc U  
 RE T  
 Shintron Co Inc T, U  
 Sigma Electronics Inc U



**Multidyne Inc** U  
 MultiVideo Image Display Co T  
 Network Technologies Inc T, U  
 Nova Systems Inc U  
 NVision Inc T  
 Omnicron Video T, U  
 Panasonic Broadcast & Television T, U



Snell & Wilcox U  
 Sony Business & Professional Group U  
 System Video U  
 Techni-Tool Inc U  
 Tektronix Inc U

## Teleconferencing Systems

AETA U  
 APS Professional Video Products U  
 Crestron U  
 Dan Dugan Sound Design U  
**Fiber Options Inc** U  
 Folsom Research U  
 FSR Inc U

## Scitex

### Digital Video

Scitex Digital Video (formerly Abekas Video Systems & ImMix) P  
 Siemens AG Österreich/Audio & Video Div M  
 Snell & Wilcox M, P  
 Sony Business & Professional Group M, P  
 ST Olektron Systems M, P  
 Tel-Test Inc M, P  
**Thomson Broadcast** M, P  
 Utah Scientific - Dynatech M, P  
 VGV Inc (Video Gainesville) P  
 Videonics P  
**Videotek Inc** M, P  
**Vistek Electronics Ltd** M, P  
 Wiltronix Inc M



**PESA Switching Systems Inc** T, U  
 Philip Drake Electronics T, U  
**Pixel Instruments Corp** T  
 Practel International Pty Ltd T, U  
 PRECO (Broadcast Systems) T, U  
**Pro-Bel** T, U  
 ProTech Audio Corp T, U  
 Questech U

## trilogy

Trilogy Broadcast Ltd U  
 VAS Group Inc U  
**Video Accessory Corp** U  
**Videotek Inc** U  
 Vortex Communications U  
 Wavetek Corp/Instrument Div U  
 Wiltronix Inc U  
 Yamashita Engineering Mfg Inc U  
 Yamashita Engineering Mfg Inc U



Gentner Communications Corp U  
 Grass Valley Group U  
 Integrated Network Corp U  
 Kaitronics Corp U  
**Lectrosonics Inc** U  
 LNR Communications Inc U  
 Panasonic Broadcast & Television U  
 Philip Drake Electronics U  
 Scantex Labs Inc U  
 Sony Business & Professional Group U  
 Taber Mfg & Engineering Co U  
 Telect Inc U  
 TokoAmerica Inc U  
 VistaCom U

### Switchers, Routing

**T Large matrix**  
**U Utility, under-monitor, small matrix**  
 AAVS/Advanced Audio Visual Systemes T, U  
 ADM Systems U  
 Adrienne Electronics Corp U  
 Alpha Image Ltd - Dynatech T  
 APS Professional Video Products T, U  
**ASACA/ShibaSoku Corp of America** T



Ram Broadcast Systems T, U  
 Sandar Electronics AS T, U  
 SAV T, U  
 Scantex Labs Inc U  
 Shintron Co Inc U  
 Siemens AG Österreich/Audio & Video Div T  
 Sierra Video Systems Inc T  
 Sigma Electronics Inc U  
 Snell & Wilcox U  
 Sony Broadcast International T, U  
 Sony Business & Professional Group T, U  
 ST Olektron Systems T, U  
 System Video T  
 Target Technology Inc T, U  
 Tech Electronics Inc U  
 Telect Inc T, U  
 Tel-Test Inc T, U  
 Texscan MSI U  
**Thomson Broadcast Inc** U  
**360 Systems** U  
 TMT electronics AG T, U  
 Trilithic Inc T  
 Utah Scientific - Dynatech T, U  
 Vicon Industries Inc T  
 Videoquip Research Ltd T, U  
**Videotek Inc** T, U  
 Viewsonics Inc T  
**Vistek Electronics Ltd** T, U  
 Vortex Communications T  
 Wiltronix Inc T, U  
 Yamashita Engineering Mfg Inc T, U

## TBCs, Synchronizers

AAVS/Advanced Audio Visual Systemes U  
 Allen Avionics Inc U  
 Alpha Image Ltd - Dynatech U  
 Alta Group Inc - Dynatech U  
 Audio Kinetics UK Ltd U  
 Beck Associates Inc U  
 Broadcast Electronic Services U  
**BTS Broadcast Television Systems** U  
 Comtech Antenna Systems Inc U  
 Digital Graphix U  
**Digital Processing Systems Inc/DPS** U  
 DT Electronics Ltd T, U  
 DTL Broadcast Ltd T, U  
 Elantec Inc U  
 Feral Industries U  
 For-A Co Ltd U  
 Fougerolle Audio/Video U  
 Ghjelmetti Kommunikationstechnik T, U  
 Grass Valley Group T  
 Hamlet Video International Ltd T, U



**AutoPatch/XN Technologies** U  
 Avitel Electronics Ltd T  
 Axon Digital Design BV T  
 BAL Broadcast Ltd T  
 Biamp Systems U  
 Broadcast Video Systems Ltd U  
 Browning Labs Inc U  
**BTS Broadcast Television Systems** T, U  
 Burst Electronics Inc T, U  
**Canare Cable Inc** T  
 Channelmatic Inc U  
 Comtech Antenna Systems Inc T, U  
**Datek Corp** U  
 Digipath Video Inc T, U  
 Di-Tech Inc T, U  
**DNF Industries** U  
 DT Electronics Ltd U  
 DTL Broadcast Ltd U  
 DYNAIR Electronics Inc T, U  
 Dynatech Video Group T, U  
 Extron Electronics T  
 For-A Co Ltd T, U  
 Force Inc U  
 Fougerolle Audio/Video T, U  
 FSR Inc T  
 GEE Broadcast Systems Ltd U

## Sync/Pattern Generators

AAVS/Advanced Audio Visual Systemes U  
**ASACA/ShibaSoku Corp of America** U  
 AVCOM of Virginia Inc U  
 BAL Broadcast Ltd U  
 BVE U  
**Digital Processing Systems Inc/DPS** U  
 DT Electronics Ltd U  
 DTL Broadcast Ltd U  
 Elantec Inc U  
**ESE** U  
 FM Systems Inc U  
 For-A Co Ltd U  
 Grass Valley Group U  
 Hamlet Video International Ltd U  
 HEDCO U  
**HORITA** U



Hotronix Inc U  
 I-Den Videotronics Inc U  
 IDX Video Inc U  
 James Grunder & Associates Inc U  
**Leitch Inc** U  
 Microtime Inc U  
 Nova Systems Inc U  
**Pixel Instruments Corp** U  
 Prime Image Inc U  
 Questech U  
 Raytheon Semiconductor U



Snell & Wilcox U  
 Sony Broadcast International U  
 Sony Business & Professional Group U  
 Technische Ltd U  
 Tektronix Inc U  
**Toshiba Corp** U

## Time Code Eqpt

AAVS/Advanced Audio Visual Systemes U  
 Adrienne Electronics Corp U  
 Alesis Corp U  
 APS Professional Video Products U  
 Arriflex Corp U  
 Audio Kinetics UK Ltd U  
 Avitel Electronics Ltd U  
 AVS Graphics Ltd U  
 Axon Digital Design BV U  
 Burst Electronics Inc U  
 Canford Audio U  
 Cinema Products Corp U  
 W Clark & Associates U  
 D-Vision Systems Inc U  
 Denecke Inc U  
 Diaquest Inc U  
 Digital Expressions Inc U  
 DTL Broadcast Ltd U



**ESE** U  
 Evertz Microsystems Ltd U  
 FAST Electronic US Inc U  
 FAST Multimedia U  
 Fast Forward Video U  
 For-A Co Ltd U  
 FutureVideo U  
**Gray Engineering Labs Inc** U  
 Hamlet Video International Ltd U  
**HORITA** U  
 Image Logic Corp U  
 Imagine Products Inc U  
**Leitch Inc** U  
 Optex U  
 Options International U

## GHIELMETTI

Ghjelmetti Kommunikations-technik AG T, U  
 Grass Valley Group T, U  
 HEDCO T, U  
 ict of North America T, U  
 Image Video/Div of 1077541 Ontario Ltd T, U

# Product Directory

Outland Technology Inc  
**Pro-Bel Ltd**  
 Ringwood Associates Ltd  
 Shintron Co Inc  
 Skotel Corp  
 Sony Business & Professional Group  
**Sumitomo Electric USA Inc**  
 Telcom Research  
 Television Systems Ltd  
 TimeLine Vista Inc  
 Transvideo SA  
 Vid-Video Inc  
 VideoLab Para Technologies  
 Vortex Communications  
 Wiltronix Inc

## Video Server

Accom Inc  
 ADT (Applied Digital Technology)  
 APS Professional Video Products  
 ASC Audio Video  
**AVID Technology Inc**  
**BTS Broadcast Television Systems**  
 Channelmatic Inc  
 D-Vision Systems Inc  
 Digistore - Dynatech  
 Drastic Technologies  
 DT Electronics Ltd  
 GEE Broadcast Systems Ltd

 **HEWLETT  
 PACKARD**

**Hewlett-Packard Co**  
 Micropolis Corp  
**Odetics Broadcast**  
 Pioneer New Media Technologies  
**Quantel Inc**  
 Scitex Digital Video  
 (formerly *ImMix*)  
 Sierra Design Labs  
 Sony Business & Professional Group  
 Stone + Wire

## Weather Displays, Radar

Accu-Weather Inc  
 Automated Weather Source  
 Digital Graphix  
 Imatex Communications Inc  
 Kavouras Inc  
 Norpak Corp  
 Spaceward Graphics Ltd  
 Texscan MSI  
 Video Data Systems  
 Weather Central Inc  
 WeatherNewsAmerica  
 WSI Corp  
 Yamashita Engineering Mfg Inc

# RF Products

## AM Antenna Equipment

**A AM direction arrays**  
**R Remote indicators**  
**S Sampling equipment**  
**U Tuning units**

Advent Communications Ltd S, U  
 Lawrence Behr Associates Inc A, R, S, U  
 Broadcast Equipment & Parts A, U  
 CCA Electronics A, U  
 ChronTrol Corp A, R, S, U  
 Continental Electronics Corp U, R, S  
 CRS-Lanmead Ltd A, U  
 Dav Tronics S  
 Delta Electronics Inc A, U  
 Alan Dick & Co Ltd A  
 Doty-Moore Tower Services A

ERI - Electronics Research A, S  
 Frontier Communications A, S, U  
 FSR Inc U  
 GEC-Marconi Communications A, U  
 Gorman-Redlich Mfg Co A, R  
 Hallikainen & Friends Inc R  
 Harris Corp/Broadcast Div A, U  
**Jampro Antennas Inc** A, U  
 Kintronic Labs Inc R, U, U  
 LBA International A, S, U, W  
 LBA Technology Inc A, S, U  
 LeBlanc & Royle Telcom Inc A  
 LPB Inc U  
 Marconi Communications Inc A, U  
 Lawrence L. Morton Associates A  
 Old Dominion Broadcast Eng Service A, R, S, U  
 Phasetek Inc A, S, U  
 Potomac Instruments Inc S  
 RIZ-Transmitters Co A, U  
 Satellite Export & Engineering SAV  
 Stainless Inc A  
 Stainless Inc A  
 Telefunken Sendertechnik A, U  
 Teracom Components AD

 **THOMCAST**

Thomcast A, R, S, U  
 Tylon Towers A

## Antennas, Other

**E Earth station**  
**F FM**  
**M Microwave, ENG, ITRS, MMDS, STL, ICR**  
**P Positioning systems for microwave, satellite, antenna controllers**  
**T TV UHF, VHF**

ABE Electronica SPA T  
 Advent Communications Ltd E, P

 **ANDREW®**

Andrew Corp E, M, P, T  
**Antenna Concepts Inc** F, M, T  
 Arden Technologies Inc M  
 Astre Sysiems Inc T  
 Astroguide E, P  
 Lawrence Behr Associates Inc M  
 Blonder-Tongue Labs Inc E  
 Broadcast Cartridge Service F, M, T  
 Broadcast Equipment & Parts M, P  
**Broadcast Microwave Services** F, M, T  
 Browning Labs Inc F, M, T  
**Cablewave Systems** F, M  
 Channel Master E, M, T  
 Comark Communications Inc F  
**COMSAT-RS/Mark Antennas** E, M  
 ComStream Corp/A Spar Co E  
 Comtech Antenna Systems E, P  
 COMWAVE M  
 Conifer Corp M  
 Continental Electronics Corp F, M  
 Continental Microwave Ltd E, M, P  
 CRS-Lanmead Ltd P, E  
 CTE International F, M, T  
 Davicom Technologies Inc F, T  
**DB Elettronica Telecomunicazioni SpA** F, M, T  
 DH Satellite E, P  
 Alan Dick & Co Ltd A, F, T  
 Dielectric Communications F, T  
 Doty-Moore Tower Services F, T  
 E-N-G Mobile Systems Inc M, P  
 EMCEE Broadcast Products M  
 ERI - Electronics Research F, T  
 FloriCal Systems Inc P  
 Gabriel Electronics Inc M  
 GC Thorsen Inc F, T  
 GEC-Marconi Communications F



## RF COMPONENTS

- Transmission Line Rigid/Helical
- Waveguide
- Filters/Combiners UHF/VHF



## TV ANTENNAS

- UHF • LPTV
- VHF • Dual mode



## FM ANTENNAS

- Sigemounts
- Panels
- Combined Systems



## PANEL ANTENNAS

- FM • UHF • VHF

**When**  
**You Want More**  
**Than Just An**  
**Antenna**



Made in USA since 1954

**JAMPRO ANTENNAS/RF SYSTEMS, INC.**  
 P.O. Box 292880  
 Sacramento, CA 95829 USA  
 Phone (916) 383-1177 • Fax (916) 383-1182

Web address: JAMPRO@BROADCAST.NET

E-Mail: JAMPRO@ns.net

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# Product Directory

Marconi Communications Inc  
MCL Inc  
MFJ Enterprises Inc  
Mu-Del Electronics Inc  
OMB Sistemas Electrónicas AB  
PRECO (Broadcast Systems) Ltd  
QEI Corp  
RCA Broadcast/GE Support Services  
Satellite Export & Engineering  
SIRA Sistemi Radio  
ST Keltec Corp  
Technosystem SPA  
Telefunken Sendertechnik GmbH  
TEM SPA  
Tepeco Corp  
**Thomcast**  
**Thomson Components & Tubes**  
**Toshiba Corp**  
Varian Associates

## Power Combiners & Duplexers

Advent Communications Ltd  
AML Inc  
Arden Technologies Inc  
Broadcast Equipment & Parts  
Comark Communications Inc  
COMWAVE  
Continental Electronics Corp  
Continental Microwave Ltd  
CTE International  
Davicom Technologies Inc  
**DB Elettronica Telecomunicazioni**  
Alan Dick & Co Ltd  
Dielectric Communications  
Dolp SRL  
Elenos SRL  
ELIT-Elettronica Italiana SpA  
ERI - Electronics Research  
ETM Electromatic Inc  
Harris Corp/Broadcast Div  
Richard Hirschmann GmbH  
IRTE Spa  
**Jampro Antennas Inc**  
JFW Industries  
Kintronic Labs Inc  
Loma Scientific International  
Loral Microwave-Narda  
Marcom  
Marconi Communications Inc  
Meret Optical Communications Inc  
Micro Communications Inc  
Microwave Filter Co Inc  
Mu-Del Electronics Inc  
North Hills Electronics Inc  
North Hills Signal Processing  
OMB Sistemas Electrónicas AB  
Phasetek Inc  
QEI Corp  
RCA Broadcast/GE Support Services  
Satellite Export & Engineering  
Scala Electronic Corp  
Shively Labs  
SIRA Sistemi Radio  
Southern Illinois Antennas  
Technosystem SPA  
Teracom Components AD  
**Thomcast**  
Tower Network Services  
TTE Inc  
UTE Microwave Inc  
Viewsonics Inc  
Wide Band Engineering Co Inc

## Power Dividers

AML Inc  
Arden Technologies Inc  
AVCOM of Virginia Inc  
Broadcast Equipment & Parts  
Comark Communications Inc  
Continental Electronics Corp  
Continental Microwave Ltd  
CTE International  
Davicom Technologies Inc  
**DB Elettronica Telecomunicazioni**  
Alan Dick & Co Ltd  
Dielectric Communications  
Dolp SRL  
Elenos SRL  
ELIT-Elettronica Italiana SpA  
ERI - Electronics Research  
Richard Hirschmann GmbH  
IRTE Spa  
**Jampro Antennas Inc**

JFW Industries  
Kintronic Labs Inc  
Loma Scientific International  
Loral Microwave-Narda  
Marcom  
Marconi Communications Inc  
Meret Optical Communications Inc  
Micro Communications Inc  
Mu-Del Electronics Inc  
**MYAT Inc**  
North Hills Electronics Inc  
North Hills Signal Processing  
OMB Sistemas Electrónicas AB  
Satellite Export & Engineering  
Scala Electronic Corp  
Shively Labs  
SIRA Sistemi Radio  
Southern Illinois Antennas  
SWR Inc  
Technosystem SPA  
Teracom Components AD  
TFT Inc  
**Thomcast**  
Tower Network Services  
Universal Electronics Inc  
Wide Band Engineering Co Inc

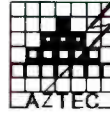
## Pressurization Eqpt

Andrew Corp  
Arden Technologies Inc  
Broadcast Equipment & Parts  
**Cablewave Systems**  
Continental Electronics Corp  
Dielectric Communications  
Environmental Technology Inc  
**Jampro Antennas Inc**  
LeBlanc & Royle Telcom Inc  
Litton/LSD  
Loma Scientific International  
Marcom  
Marconi Communications Inc  
Shively Labs

SIRA Sistemi Radio  
Southern Illinois Antennas  
SWR Inc  
Technosystem SPA  
**Thomcast**  
Tower Network Services

## RDS Encoders, Monitoring Eqpt

Advent Communications Ltd  
**ASACA/ShibaSoku Corp of America**  
Access USA Corp

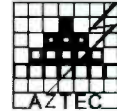


Aztec sa  
**Belar Electronics Lab Inc**  
Broadcast Electronics Inc  
Broadcast Equipment & Parts  
Cemys  
CTE International  
**DB Elettronica Telecomunicazioni**  
Elenos SRL  
Richard Hirschmann GmbH  
Inovonics Inc  
ITELCO SpA  
Milestone Technologies  
Modulation Sciences  
PRECO (Broadcast Systems) Ltd  
QEI Corp  
RE America Inc  
Rohde & Schwarz GmbH & Co Kg  
SCA Data Systems Inc  
Siel Sistemi Elettronici SRL  
Technosystem SPA  
Telefunken Sendertechnik GmbH

TFT Inc  
**Thomcast**

## Receivers, AM, FM, SCA and Communications Equipment

Advent Communications Ltd  
Avocet Instruments Inc

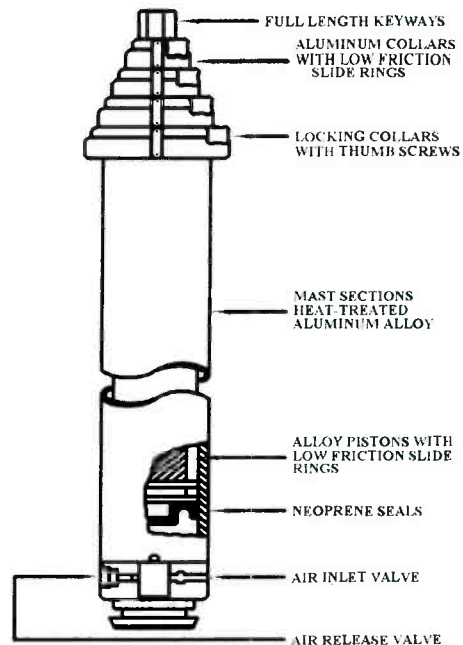


Aztec sa  
**Belar Electronics Lab Inc**  
Bext Inc  
Broadcast Equipment & Parts  
Broadcast Microwave Services Inc  
Continental Electronics Corp  
Crown International Inc  
CTE International  
Dav Tronics  
**DB Elettronica Telecomunicazioni**  
Delta Electronics Inc  
Dolp SRL  
Elenos SRL  
ELIT-Elettronica Italiana SpA  
Force Inc  
Richard Hirschmann GmbH  
Inovonics Inc  
ITELCO SpA  
Marconi Communications Inc  
Marti Electronics  
Meret Optical Communications Inc  
Midland International  
Milestone Technologies  
Modulation Sciences  
T R Pitts Co

## Applications

- Remote ENG
- Communications
- Field Strength Measurements
- Pop-up Jamming
- Remote Surveillance
- Noise Level Measurements
- Temporary Floodlighting
- Environmental Sensors
- Military Communications

## HILOMAST TELESCOPIC PNEUMATIC MASTS



for Further Information Contact Jim Osborne

**ALLEN OSBORNE ASSOCIATES, INC.**  
756 LAKEFIELD RD. Bldg. J  
WESTLAKE VILLAGE, CALIFORNIA 91361  
Tel: (805) 495-8420 Fax: (805) 373-6067

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# Product Directory

Potomac Instruments Inc  
PRECO (Broadcast Systems) Ltd  
Reach Electronics Inc  
SCA Data Systems Inc  
Siel Sistemi Elettronici SRL  
Technosystem SPA  
Tectan Inc  
TFT Inc  
Universal Electronics Inc

## Receivers, Satellite

Advent Communications Ltd  
Andrew Corp  
AVCOM of Virginia Inc  
BAF Communications Corp  
Barco Inc  
California Amplifier Inc  
ComStream Corp/A Spar Co  
Continental Microwave Ltd  
CRS-Lanmead Ltd  
**DB Elettronica Telecomunicazioni**  
DH Satellite  
Dolp SRL  
Elenos SRL  
ELIT-Elettronica Italiana SpA  
Fairchild Data Corp  
General Microwave Services Inc  
Richard Hirschmann GmbH  
International Datacasting Corp  
**Intraplex Inc**  
IRTE Spa  
ISS Engineering Inc  
ITELCO SpA  
Kathrein-Werke KG  
LNR Communications Inc  
Marcom  
Milestone Technologies  
Mu-Dei Electronics Inc  
News/Sports Microwave Rental Inc  
Ortel Corp  
T R Pitts Co  
Satellite Export & Engineering  
Scientific-Atlanta  
Standard Communications Corp  
Tectan Inc  
**Thomcast**  
**Thomson Broadcast Systems**  
Tiernan Communications  
Universal Electronics Inc  
Vizcom/Satellite Systems  
**Wegener Communications Inc**

## Remote Pickup Components, Electronics

Bi-Directional Microwave  
Broadcast Equipment & Parts  
Broadcast Microwave Services Inc  
Browning Labs Inc  
Continental Electronics Corp  
FM Systems Inc  
General Microwave Services Inc  
**Intraplex Inc**  
JFW Industries  
Link Communications SA  
Mart Electronics  
Microwave Filter Co Inc  
Microwave Radio Corp  
Moseley Associates Inc  
Nucomm Inc  
PRECO (Broadcast Systems) Ltd  
Pulizzi Engineering Inc  
QEI Corp  
RF Industries  
Spectrum Communications Corp  
Telos Systems  
TFT Inc  
**Thomcast**  
Tron-Tek Inc  
**Wegener Communications Inc**

## Satellite T/R Components, Electronics

Advent Communications Ltd  
Andrew Corp  
Astroguide  
AVCOM of Virginia Inc  
Bi-Directional Microwave  
California Amplifier Inc  
Communications & Power Industries  
Comsat RSI  
ComStream Corp/A Spar Co  
Continental Microwave Ltd  
CRS-Lanmead Ltd  
EEV Ltd

ELIT-Elettronica Italiana SpA  
ETM Electromatic Inc  
Fairchild Data Corp  
FM Systems Inc  
Frequency Products Inc  
Frontline Communications  
Insulated Wire Inc  
International Datacasting Corp  
**Intraplex Inc**  
ISS Engineering Inc



LNR Communications Inc  
Magnavox  
MCL Inc  
Microwave Filter Co Inc  
Ortel Corp  
Pagesat  
T R Pitts Co  
PTL Cable Service  
Pulizzi Engineering Inc  
RF Technology Inc  
Satellite Export & Engineering  
Scientific-Atlanta  
Tectan Inc  
**Thomson Broadcast Systems**  
Tiernan Communications  
Universal Electronics Inc  
Viewsonics Inc  
Vizcom/Satellite Systems  
**Wegener Communications Inc**

## STL Components & Electronics

ABE Elettronica SPA  
Artel Communications  
Bext Inc  
Bi-Directional Microwave  
Broadcast Equipment & Parts  
Broadcast Microwave Services Inc  
Browning Labs Inc  
Cemty  
CommSpec  
Continental Electronics Corp  
Continental Microwave Ltd  
Dolby Laboratories Inc  
Elenos SRL  
ELIT-Elettronica Italiana SpA  
EMCEE Broadcast Products  
Energy-Onix Broadcast Equipment  
FM Systems Inc  
Frequency Products Inc  
General Microwave Services Inc  
**Intraplex Inc**  
JNS Electronics Inc  
Kintronic Labs Inc  
Link Communications SA  
Loma Scientific International  
M/A-Com Inc  
Marcom  
Mart Electronics  
Microwave Filter Co Inc  
Microwave Networks Inc



Microwave Radio Corp  
Moseley Associates Inc  
Nucomm Inc  
OMB Sistemas Electrónicos AB  
PRECO (Broadcast Systems) Ltd  
Pulizzi Engineering Inc  
QEI Corp  
RF Plante  
RF Technology Inc  
Technosystem SPA  
Tectan Inc  
TFT Inc  
**Wegener Communications Inc**

## Switchers, RF Coaxial

Bird Electronic Corp  
Broadcast Equipment & Parts  
Comark Communications Inc  
Continental Electronics Corp  
**DB Elettronica Telecomunicazioni**  
Delta Electronics Inc  
Alan Dick & Co Ltd  
Dielectric Communications

ELIT-Elettronica Italiana SpA  
GEC-Marconi Communications Ltd  
IRTE Spa  
**Jampro Antennas Inc**  
JFW Industries  
Kathrein-Werke KG  
Kintronic Labs Inc  
LBA Technology Inc  
Loma Scientific International  
Loral Microwave-Narda  
Marcom  
Marconi Communications Inc  
Meret Optical Communications Inc  
MFJ Enterprises Inc  
Micro Communications Inc  
Monroe Electronics Inc  
Pacific Radio Electronics  
PRECO (Broadcast Systems) Ltd  
Scala Electronic Corp  
Shively Labs  
SIRA Sistemi Radio  
SWR Inc  
Technosystem SPA  
Telect Inc  
Telefunken Sendertechnik GmbH  
Tel-Test Inc  
Teracom Components AD  
**Thomcast**  
Trilithic Inc  
Wide Band Engineering Co Inc

## Towers, Antenna Support

Allied Tower Co Inc  
Aluma Tower Co Inc  
Andrew Corp  
Broadcast Communications  
Broadcast Equipment & Parts  
Central Tower Inc  
Continental Electronics Corp  
Davicom Technologies Inc  
Alan Dick & Co Ltd  
ERI - Electronics Research  
Express Tower Co  
FWT  
GEC-Marconi Communications Ltd  
IRTE Spa  
**Jampro Antennas Inc**  
Kline Towers  
LBA International  
LBA Technology Inc  
LDL Communications Inc  
LeBlanc & Royle Telcom Inc  
Magnum Towers Inc  
Malouf Engineering International  
Marcom  
Marconi Communications Inc  
Microlect Co Inc  
Fred A Nudd Corp  
**PiROD Inc**  
T R Pitts Co  
RIZ-Transmitters Co  
ROHN  
Satellite Export & Engineering  
Stainless Inc  
Stellar Communications Inc  
Swager Communications Inc  
SWR Inc  
Technosystem SPA  
Teko Telecom SRL  
Telefunken Sendertechnik GmbH  
Tenco Tower Co  
Teracom Components AD



Thomcast



Tower Network Services  
Transmission Structures Ltd.  
Trylon Towers

## Utility Tower

Utility Tower Co  
Will-Burt

## Tower Related Products

- A Accessories, guys, insulators**
- L Lighting systems, sensors, controllers**
- P Portable masts**

**Allen Osborne Associates** P  
Aluma Tower Co Inc L, P  
Andrew Corp L  
Broadcast Equipment & Parts A, L, P  
Peter Dahl Co Inc L  
Davicom Technologies Inc L  
Alan Dick & Co Ltd A  
Entertainment Technology Cable A, L, P  
ERI - Electronics Research L  
Flash Technology Corp of America A, L  
FWT A, L  
Hughey & Phillips Inc A, L, P  
**Jampro Antennas Inc** P  
Kline Towers A, L  
LBA International A, L, P  
LBA Technology Inc A, L, P  
LeBlanc & Royle Telcom Inc L  
Marcom L  
Phasetek Inc A  
**PiROD Inc** L  
T R Pitts Co L  
Precision Multiple Controls L  
Racal Decca Canada Ltd A, L  
SSAC Inc L  
Swager Communications Inc A, L  
**Thomcast** L, P



Tower Network Services A, L  
Trylon Towers A, L, P  
TWRL Lighting Inc L

## Utility Tower

Utility Tower Co A, L, P  
Will-Burt L  
Xcel Controls Inc L

## Transformers, Power, Modulation

Broadcast Equipment & Parts  
Peter Dahl Co Inc  
Dolp SRL  
JFW Industries  
North Hills Signal Processing  
Perma Power Electronics Inc  
RCA Broadcast/GE Support Services  
Sescom Inc  
Technosystem SPA  
Telefunken Sendertechnik GmbH  
**Thomcast**

## Translators, Transposers

**F FM**  
**T TV**  
**Acrodyne Industries Inc** T  
Andrew Corp T  
Bext Inc F, T  
Broadcast Equipment & Parts F  
Browning Labs Inc F, T  
Cemty F  
Continental Electronics Corp F  
Continental Microwave Ltd T  
Crown International Inc F  
CTE International F, T  
**DB Elettronica Telecomunicazioni SpA** F, T  
Dolp SRL F, T  
Elenos SRL F, T  
ELIT-Elettronica Italiana SpA F, T  
EMCEE Broadcast Products T  
Energy-Onix Broadcast Equipment Co F  
Frequency Products Inc F  
GEC-Marconi Communications Ltd F  
Harris Corp/Broadcast Div T

# Product Directory

## Hirschmann

Richard Hirschmann GmbH T  
 HPG Industries Inc (Sharb Electronics) F, T  
 IRTE Spa  
 ISS Engineering Inc T  
 ITELCO SpA F, T  
 ITS Corp T  
**Jampro Antennas Inc** F, T  
 JT Communications F  
 Larcant-TTC Inc F, T  
 LDL Communications Inc F, T  
 Link Communications SA F  
 Loma Scientific International F, T  
 Old Dominion Broadcast Eng Service F  
 OMB Sistemas Electrónicas AB F, T  
 PESA Electronica S.A.  
 QEI Corp F  
 Rohde & Schwarz GmbH F, T  
 Technosystem SPA F, T  
 Teko Telecom SRL F, T  
 Telefunken Sendertechnik GmbH F  
 TEM SPA T  
 Tepco Corp F, T  
 TFT Inc F

## THOMCAST

Thomcast F, T

### Transmission Line, Waveguide

Andrew Corp  
 Arden Technologies Inc  
 Broadcast Communications  
 Broadcast Equipment & Parts  
**Cablewave Systems**  
 Comark Communications Inc  
 COMWAVE  
 Continental Electronics Corp  
 Alan Dick & Co Ltd  
 Dielectric Communications  
 Doty-Moore Tower Services  
 EMCEE Broadcast Products  
 Entertainment Technology Cable Inc  
 ERI - Electronics Research  
**Hewlett-Packard Co**  
 IRTE Spa  
 JoLida Inc  
 LeBlanc & Royle Telcom Inc  
 Loma Scientific International  
 Loral Microwave-Narda  
 Marcom  
 Marconi Communications Inc  
 Micro Communications Inc  
 Microlect Co Inc  
**MYAT Inc**  
 Nucomm Inc  
 Phasetek Inc  
 RIZ-Transmitters Co  
 Scala Electronic Corp  
 Shively Labs  
 Southern Illinois Antennas  
 Technosystem SPA  
 Telefunken Sendertechnik GmbH  
 Teracom Components AD  
**Thomcast**



Tower Network Services

### Transmitter Remote Control, Telemetry

Advent Communications Ltd  
 Broadcast Microwave Services Inc  
 Burk Technology Inc  
 Colortran Inc  
**Conex Electro Systems Inc**  
 Continental Electronics Corp  
 Davicom Technologies Inc  
**DB Elettronica Telecomunicazioni**  
 Dynatech Tactical Communications  
 Elenos SRL  
 ELIT-Elettronica Italiana SpA  
 FloriCal Systems Inc  
 GEC-Marconi Communications Ltd

## Gentner

Gentner Communications Corp  
 Hallikainen & Friends Inc  
 Harris Corp/Broadcast Div



**Intraplex inc**  
 Marcom  
 Marconi Communications Inc  
 Moseley Associates Inc  
 NTL  
 Potomac Instruments Inc  
 Practel International Pty Ltd  
 Pulizzi Engineering Inc  
 RF Technology Inc  
 Schmid Telecom AG  
 Schmid Telecommunication America Inc  
 Technosystem SPA  
 Telefunken Sendertechnik GmbH  
**Thomcast:**  
 Troll Technology Corp  
 Tron-Tek Inc

### Transmitter Systems

**A AM, SW radio**  
**F FM radio (except translators)**  
**T TV VHF/UHF (except translators)**

ABE Electronica SPA T  
**Acrodyn Industries Inc** T  
**Advanced Broadcast Systems** T  
 Andrew Corp T  
 Astre Systems Inc T

Bext Inc T  
 Bi-Directional Microwave F, T  
 Broadcast Electronics Inc A, F  
 Broadcast Equipment & Parts A, F  
 Browning Labs Inc F, T  
 CCA Electronics A, F  
 CED F, T  
 Cemys F  
 Comark Communications Inc T  
 Continental Electronics Corp A, T  
 Continental Microwave Ltd T  
 Crown International Inc F  
**DB Elettronica Telecomunicazioni SpA** F, T  
 Dolp SRL F, T  
 Dynatech Tactical Communications T  
 Eicom Bauer A, F  
 Elenos SRL F, T  
 ELIT-Elettronica Italiana SpA F, T  
 EMCEE Broadcast Products T  
 Energy-Onix Broadcast Equipment Co A, F  
 Force Inc T  
 Frequency Products Inc F  
 GEC-Marconi Communications A, F, T  
 Harris Corp/Broadcast Div A, F, T  
 Richard Hirschmann GmbH T  
 HPG Industries Inc (Sharb Electronics) A, F, T  
 IRTE Spa T  
 Italiana Ponti Radio Srl A, F  
 ITELCO SpA F, T  
 ITS Corp T  
 JT Communications F  
 Larcant-TTC Inc F, T  
 LDL Communications Inc F, T  
 Link Communications SA F  
 Loma Scientific International T  
 LYS Electronic DTDA T  
 Marcom F, T  
 Marconi Communications Inc A, F, T

Marshall Electronics Inc F  
 Nautel Maine Inc A, F  
 OMB Sistemas Electrónicas AB F, T  
 Omnitronix Inc A  
 PESA Electronica S.A.  
 Philips TV Test Equipment T  
 PRECO (Broadcast Systems) A, F  
 QEI Corp F  
 Radio Systems Inc A  
 RIZ-Transmitters Co A, F  
 Rohde & Schwarz GmbH F, T  
 Siel Sistemi Elettronici SRL F  
 Technosystem SPA F, T  
 Teko Telecom SRL F, T  
 Telefunken Sendertechnik A, F, T  
 TEM SPA F, T  
 TFT Inc T

## THOMCAST

Thomcast A, F, T  
 Toshiba Corp T

### Tubes, Rectifiers

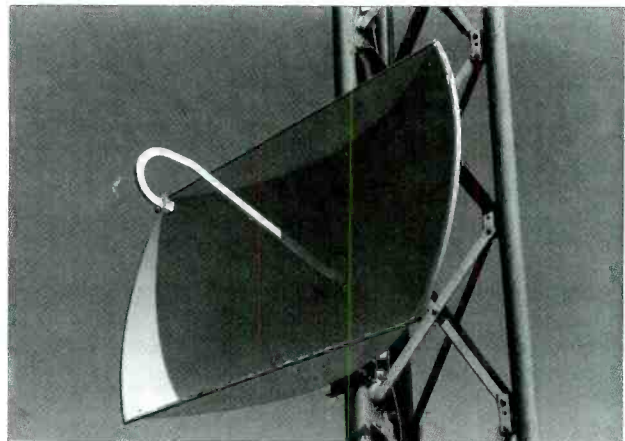
Audio Interstitial Design  
 Broadcast Equipment & Parts  
 CCA Electronics  
 Continental Electronics Corp  
 Peter Dahl Co Inc  
 Daily Electronics Corp  
 EEV Ltd  
 Elenos SRL  
 ELIT-Elettronica Italiana SpA  
 Motorola Semiconductor Products Sector  
 Newark Electronics  
 Penta Labs  
 Richardson Electronics  
 Sharb Electronics  
 Siel Sistemi Elettronici SRL

**COMSAT RSI®**  
 Mark Antennas



1757 S. Winthrop Dr.  
 Des Plaines, IL 60018  
 708-298-9420  
 Fax: 708-635-7946  
 U.K. 0634-71554

## Category "A" Antenna For The Broadcast Industry



- Meets FCC Part 74 Category "A" specifications
- Windload no greater than a 6-foot solid
- Allows upgrade of systems without increasing tower windloading or compromising link quality
- Pattern performance of an 8-foot solid

Circle (58) on Reply Card



# Product Directory

Svetlana Electron Devices  
**Thomson Components & Tubes Corp**  
**Thomson Tubes Electroniques**  
 Thor Electronics Corp  
 Vacuum Tube Industries  
 Varian Associates

## Tubes, RF Power Triodes, Tetrodes

Broadcast Devices Inc  
 Broadcast Equipment & Parts  
 Burie Industries Inc  
 California Tube Lab Inc  
 CCA Electronics  
 Comark Communications Inc  
 Continental Electronics Corp



CPI/Eimac Division  
 Daily Electronics Corp  
**DB Elettronica Telecomunicazioni**  
 Econco Inc  
 EEV  
 Elenos SRL  
 ELIT-Elettronica Italiana SpA  
 IRTE Spa  
 JoLida Inc  
 Loma Scientific International  
 Marcom  
 Motorola Semiconductor Products Sector  
 Penta Labs  
 Richardson Electronics  
 Siei Sistemi Elettronici SRL



Svetlana Electron Devices  
**Thomson Components & Tubes Corp**  
**Thomson Tubes Electroniques**  
 Vacuum Tube Industries  
 Varian Associates

## Vacuum Contactors

**Advanced Broadcast Systems Inc**  
 JoLida Inc  
 Kintronic Labs Inc  
 LBA International  
 LBA Technology Inc  
 Marcom  
 Phasetek Inc  
 Surcom Associates Inc  
 Svetlana Electron Devices  
 Vacuum Tube Industries

## Weather Radar RF Products

Advanced Designs Corp  
 Andrew Corp  
 Communications & Power Industries  
 Canada  
 EEV Ltd  
 Frequency Products Inc  
 Kavouras Inc  
 Precision Specialties Inc  
 Technosystem SPA



## Business Automation

A-Ware Software Inc  
 CBSI-Custom Business Systems Inc  
 Columbine Systems Inc

Computer Engineering Associates  
 Datacount Inc  
 Electric Works Corp  
 Enterprise Systems Inc  
 Imagine Products Inc  
 Jefferson-Pilot Data Services  
 The Management  
 MBS Technologies Inc  
 Mediatron GmbH  
 MEMEX Software Inc  
 NDG Phoenix Inc  
 Nesbit Systems Inc  
 Netia Digital Audio  
 Panasonic ProAudio/Ramsa  
 Planon Telexpertise Inc  
 Professional Management Services  
 Radio Computing Services/RCS  
 Register Data Systems  
 Sony Business & Professional Group  
 Summit Software Systems Inc  
 Tapsan Inc  
 Unique Business Systems  
 Video Communications

## Commercial Insertion Systems

ADT (Applied Digital Technology)  
 Adtec Productions Inc  
 Alamar Electronics USA Inc  
 American Broadcast Systems Inc  
 APS Professional Video Products  
**ASACA/ShibaSoku Corp of America**  
 ASC Audio Video  
**AVID Technology Inc**  
 BCD Associates Inc  
**BTS Broadcast Television Systems**  
 Channelmatic Inc  
 Comtech Antenna Systems Inc  
 Fast Forward Video  
 FloriCal Systems Inc  
 FSR Inc



**Hewlett-Packard Co**  
 ict of North America  
 IGM Communications  
 Image Logic Corp  
**Leightronix Inc**  
**LouthAutomation**  
 MATCO Inc  
 Netia Digital Audio  
 The Network Connection Inc  
**Odetics Broadcast**  
 Panasonic Broadcast & Television  
 T R Pitts Co  
 Planon Telexpertise Inc  
**Pro-Bel Inc**  
 Register Data Systems  
 Softel Systems  
 Solutec Ltd  
 Sony Business & Professional Group  
 Sundance Digital Inc  
 Tech Electronics Inc  
 Texscan MSI  
 Time Logic Inc  
 Video Data Systems  
 Videoquip Research Ltd

## Computers & Peripherals

Adrienne Electronics Corp  
 Alamar Electronics USA Inc  
 ATI Technologies  
 Audiomation Systems  
 Aydin Controls  
 The Baranti Group Inc  
 B&B Electronics Mfg Co  
 BGW Systems Inc  
 CH Products  
 Columbine Systems Inc  
 Computer Concepts Corp  
 Computer Engineering Associates  
 J E Cuesta Co Inc  
 Diaquest Inc  
 Electric Works Corp  
 Extron Electronics  
 HES Electronics  
**Hewlett-Packard Co**  
 ict of North America  
 Industrial Computer Source  
 Intergraph Computer Systems

Interlace Engineering Corp  
 ISC Datacom  
 JLC Cooper Electronics  
 Kensington Microwave Ltd  
 Knox Video  
 Lazerus  
 The Management  
 Media Touch Systems Inc  
 Mediatron GmbH  
 Meirick Inc  
 Micro Express  
 NDG Phoenix Inc  
 The Network Connection Inc  
 Network Technologies Inc  
 Newark Electronics  
 NuMedia Corp  
**Pro-Bel Ltd**  
 Professional Management Services  
 Prophet Systems Inc  
 QSC Audio Products Inc  
 Register Data Systems  
 RGB Computer & Video  
 Richmond Sound Design Ltd  
 Rorke Data Inc  
 Scott Studios Corp



Sealevel Systems Inc  
 Silicon Graphics Inc  
 Tech Electronics Inc  
 TECH-SA-PORT  
 Truevision/Raster Ops  
 Video Communications  
 Xcel Controls Inc

## Engineering Software

**C Cad, Drawing**  
**D Diagnostics, maintenance**  
**F Facilities management**

AAVS/Advanced Audio Visual Systemes  
 Computer Assisted Technologies  
 D A T A Business Publishing  
 DesignCAD Inc  
 EDX Engineering Inc  
 HES Electronics  
**Hewlett-Packard Co**  
 Intergraph Computer Systems  
 JNS Electronics Inc  
 Lazerus  
 NDG Phoenix Inc  
 The Network Connection Inc  
 QSC Audio Products Inc  
 ScheduALL by VizuAll Inc  
 Schmid Telecom AG  
 Schmid Telecommunication America Inc  
 Shuttlesound Ltd  
 SoftWright LLC  
 Truevision/Raster Ops  
 V-Soft Communications  
 Video Design Pro  
 Viagrafix - Design CAD Division  
 Xymox Systems

## Newsroom Automation

AEQ SA  
 ASC Audio Video  
 The Associated Press  
 Autocue Ltd  
**AVID Technology Inc**  
 AVS Graphics Ltd  
 A-Ware Software Inc  
 Broadcast Electronics Inc  
**BTS Broadcast Television Systems**  
 Columbine Systems Inc  
 Comprompter Inc  
 Computer Concepts Corp  
 Computer Engineering Associates  
 DCM Inc  
 Designing Minds  
 Dynatech Video Group  
 FloriCal Systems Inc  
 HES Electronics  
 ict GmbH  
 Imagine Products Inc  
 Inscribe Character Generator  
 Interlace Engineering Corp  
 International Tapetronics Corp  
 IRIS Technologies Inc  
 JLC Cooper Electronics

**LouthAutomation**  
 LPB Inc  
 Media Computing Inc  
 Mediatron GmbH  
 Nagra Lysis sa  
 Nesbit Systems Inc  
 Netia Digital Audio  
 The Network Connection Inc  
 News Technology Corporation  
 NewsMaker Systems Inc  
 Newstar - Dynatech  
 Newswire 2000  
 NSI  
 Nytone Inc  
 Ogenic Technologies  
 Panasonic Broadcast & Television  
 PRECO (Broadcast Systems) Ltd  
**Quantel Inc**  
 Radio Computing Services/RCS  
 Schmid Telecom AG  
 Softech Systems  
 Sonifex Ltd  
 Spaceward Graphics Ltd  
 Sports Network  
 The Sports Network  
 Tandberg Data Storage AS  
 Tel-Test Inc  
**Thomson Broadcast Inc**  
 Videoquip Research Ltd  
**Vistek Electronics Ltd**  
 WireReady Newswire Systems  
 WSI Corp

## Playback Automation

AAVS/Advanced Audio Visual Systemes  
 AD Systeme  
 Adtec Productions Inc  
 AEQ SA  
 AEV SRL

## ASACA/ShibaSoku Corp of America

AVS Graphics Ltd  
 Broadcast Automation Inc  
 Broadcast Electronics Inc  
 Broadcast Programming  
 Cartworks  
 CBSI-Custom Business Systems Inc  
 Computer Concepts Corp  
 Comtech Antenna Systems Inc  
**Conex Electro Systems Inc**  
 DALET  
 Dalet Digital Media Systems  
 Digital Research Corp  
 Electric Works Corp  
 ENCO Systems Inc  
 EuroSonAmerica Inc  
 Gefen Systems  
 GML Inc  
 HES Electronics  
 IGM Communications  
 International Tapetronics Corp  
 JLC Cooper Electronics  
**LouthAutomation**  
 LPB Inc  
 The Management  
 McCurdy Radio Industries Ltd  
 Media Touch Systems Inc  
 Mediatron GmbH  
 Mediatron GmbH  
 Nagra Lysis sa  
 Netia Digital Audio  
**Odetics Broadcast**  
 Ogenic Technologies  
 Panasonic Broadcast Systems  
 Philip Drake Electronics  
 Pioneer New Media Technologies Inc  
 PRECO (Broadcast Systems) Ltd  
**Pro-Bel Ltd**  
 Professional Management Services  
 Prophet Systems Inc  
**Quantel Inc**  
 Radio Computing Services/RCS  
 Radio Systems Inc  
 Ram Broadcast Systems  
 RCS/Radio Computing Systems  
 Register Data Systems  
 Richmond Sound Design Ltd  
 Schafer World Communications Corp  
 Scott Studios Corp  
 Sentry Systems  
 Smarts Broadcast Systems  
 Sonifex Ltd  
 Sony Business & Professional Group  
 Studer Professional Audio AG  
 Tandberg Data Storage AS  
 Tech Electronics Inc  
 Technica Dei Arte bv

# Product Directory

Tektronix Inc  
**360 Systems**  
 TM Century  
 Video Data Systems  
 WireReady Newswire Systems

## Record/Playback Automation

AAVS/AdvancedAudio Visual Systems  
 Adtec Productions Inc  
 Alamar Electronics USA Inc  
 American Broadcast Systems Inc  
 APS Professional Video Products  
**ASACA/ShibaSoku Corp of America**  
 ASC Audio Video  
 Audiomatic Systems  
**AVID Technology Inc**  
 AVS Graphics Ltd  
**BTS Broadcast Television Systems**  
 Channelmatic Inc  
 Comprompter Inc  
 Comtech Antenna Systems Inc  
 Diaquest Inc  
 Dynatech Video Group  
 EVS Broadcast Equipment  
 FloriCal Systems Inc  
 Image Logic Corp  
 Image Video/Div of 1077541 Ontario Ltd  
 Interface Engineering Corp  
 JLCoooper Electronics  
**Leightronix Inc**  
**Louth Automation**  
 The Management  
 MATCO Inc  
 McCurdy Radio Industries Ltd  
 Media Computing Inc  
 MEMEX Software Inc  
 Nagra Lysis sa  
 The Network Connection Inc  
 Nytone Inc  
**Odetics Broadcast**  
 Panasonic Broadcast & Television  
 Philip Drake Electronics  
 Pioneer New Media Technologies  
 Planon Telexpertise Inc  
**Pro-Bel**  
 Radio Systems Inc  
 Recognition Concepts Inc  
 Solutec Ltd  
 Sony Business & Professional Group  
 Spaceward Graphics Ltd  
 Sundance Digital Inc  
 Tandberg Data Storage AS  
 Tech Electronics Inc  
 Tektronix Inc  
 Tel-Test Inc  
 Texscan MSI  
**Thomson Broadcast Systems**  
 Time Logic Inc  
 Utah Scientific - Dynatech  
 Video Data Systems  
 VideoFusion Ltd Partnership  
**Vistek Electronics Ltd**  
 Zaxcom

GP Enterprises Inc  
**Hewlett-Packard Co**  
 Richard Hirschmann GmbH  
 Jasoni Electronics  
 JNS Electronics Inc  
 Kirchner Elektronik  
**Leader Instruments Corp**  
 MicroAudio Inc  
 Neutrik AG  
 Neutrik Instrumentation Inc  
 Pacific Coast Marketing  
 Potomac Instruments Inc  
 PRECO (Broadcast Systems) Ltd



Prism Media Products Inc  
**Pro-Bel**  
 PTL Cable Service  
 Sabine Inc  
 Sample Rate Systems Oy  
 Schmid Telecommunication America Inc  
 Sound Technology Inc  
 StageTech Developments AB  
 Stanford Research Systems  
 Tally Display Corp  
 TC Electronic  
 Techni-Tool Inc  
 Tektronix Inc  
 Telecommunications Techniques Corp  
 TFT Inc  
 Titus Technological Labs  
 Tremetrics Inc  
 Wandel & Goltermann  
 Wide Band Engineering Co Inc  
 XTA Electronics Ltd

## Analyzers, RF, Spectrum/Sideband

AAVS/Sencore  
 Anritsu Willtron  
 AVCOM of Virginia Inc  
 BAF Communications Corp  
 Eoonton Electronics Corp  
 Dwight Cavendish Co  
 Contact East Inc  
 Davicom Technologies Inc  
 Delta Electronics Inc  
 DK-Audio  
 ELIT-Elettronica Italiana SpA  
**Hewlett-Packard Co**  
 Fichard Hirschmann GmbH  
 Kay Elemetrics Corp  
**Leader Instruments Corp**  
 LNR Communications Inc  
 MFJ Enterprises Inc  
 Philips Broadband Networks Inc  
 PTL Cable Service  
 Rohde & Schwarz GmbH & Co Kg  
 Techni-Tool Inc  
 Tektronix Inc  
 Telecommunications Techniques Corp  
 Wandel & Goltermann  
 Wide Band Engineering Co Inc

## Analyzers, Video System

AAVS/AdvancedAudio Visual Systems  
**ASACA/ShibaSoku Corp of America**  
 Boland Communications  
 Dwight Cavendish Co  
 Colorado Video Inc  
 Electronic Visuals  
 GEE Broadcast Systems Ltd  
 GP Enterprises Inc  
**Hewlett-Packard Co**  
 Richard Hirschmann GmbH  
**Leader Instruments Corp**

Magni Systems  
 Pacific Coast Marketing  
 Planon Telexpertise Inc  
 Plateau Digital Technology  
**Pro-Bel Ltd**  
 PTL Cable Service  
 SyntheSys Research Inc  
 System Video  
 Techni-Tool Inc  
**Videotek Inc**  
 Viewtronics Ltd  
 VIZ Technologies

## Antenna Impedance Bridges

Delta Electronics Inc  
 Eagle  
 MFJ Enterprises Inc  
 PTL Cable Service  
 Rohde & Schwarz GmbH & Co Kg  
 Wide Band Engineering Co Inc

## Audio Generators

AAVS/AdvancedAudio Visual Systems  
**ASACA/ShibaSoku Corp of America**  
**Audio Precision**  
 Beck Associates Inc  
 Boonton Electronics Corp  
 Burk Technology Inc  
**Conex Electro Systems Inc**  
 Danbridge AS  
 G Prime Ltd  
 Gold Line Inc  
 GP Enterprises Inc  
 HEDCO  
 HES Electronics  
**Hewlett-Packard Co**  
 Image Video/Div of 1077541 Ontario Ltd  
 JNS Electronics Inc  
**Leader Instruments Corp**

## Test & Measurement

### Analizers, Audio System

Acoustech  
**ASACA/ShibaSoku Corp of America**  
**Audio Precision**  
 AudioControl Industrial  
 Audioscope srl  
 Boland Communications  
 Boonton Electronics Corp  
 Brüel & Kjær Instruments Inc  
 Dwight Cavendish Co  
 Circuit Research Labs Inc  
 DK-Audio  
 Dorrrough Electronics  
 EIP Microwave Inc  
 Full Compass Systems Ltd  
 G Prime Ltd  
 Gauss  
 GEE Broadcast Systems Ltd  
 Gold Line Inc

# You asked for it.

## DTR-313 Time Code Reader /Generator

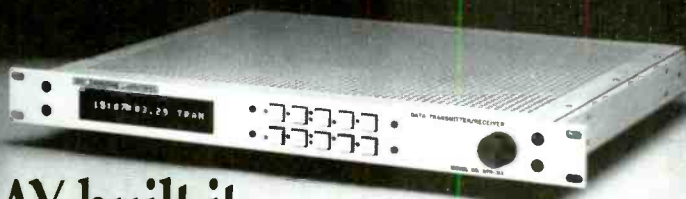
LTC Generator • VITC Generator • Wide Band LTC Reader

VITC Reader - Character inserter • Slave • Slave to time code in user bits

Auto Sync Sense SMPTE/EBU/655-24 • User bit manipulation • Color Frame

Full Front Panel Control • Serial Remote Control • Local Display

Upgradable • All in one rack unit



## GRAY built it.

Introducing the DTR-313. Eight fully upgradable standard configurations available. Custom configurations including component video available by special order. The DTR-313 is available NOW. Prices start at \$2805.00 list, including five-year parts and labor warranty.



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Circle (63) on Reply Card



# Product Directory

Magni Systems  
**Multidyne Inc**  
 NeutrikAG  
 Neutrik Instrumentation Inc  
 NVision Inc  
 Pacific Coast Marketing  
 Potomac Instruments Inc  
 Praeltel International Pty Ltd  
 PRECO (Broadcast Systems) Ltd  
 Rohde & Schwarz GmbH & Co Kg  
 Sample Rate Systems Oy  
 Scantex Labs Inc  
 Sescom Inc  
 Sound Technology Inc  
 Stanford Research Systems  
 TC Electronic  
 Tektronix Inc

## Demodulators, TV Precision

**ASACA/ShibaSoku Corp of America**  
 Barco Inc  
**Belar Electronics Lab Inc**  
 Davicom Technologies Inc  
 Hewlett-Packard Co  
 Richard Hirschmann GmbH  
 Philips TV Test Equipment  
 PTL Cable Service  
 QSI Systems Inc  
 Rohde & Schwarz GmbH & Co Kg  
 Tektronix Inc  
 TFT Inc  
**Videotek Inc**

## Bench Power Supplies

Calex Mfg Co Inc  
 Contact East Inc  
 Fluke Corp  
**Hewlett-Packard Co**  
 JFW Industries  
**Leader Instruments Corp**  
**Multidyne Inc**  
 Newark Electronics  
 Pulizzi Engineering Inc  
 Sorensen Co  
 Stanford Research Systems  
 Techni-Tool Inc  
 Xentek Inc

## Detectors, Non-ionizing Radiation

Holiday Industries Inc  
 JFW Industries  
 Loral Microwave-Narda

## Digital Diagnostic Systems

AAVS/Sencore  
 AETA



Aztec sa  
 GEE Broadcast Systems Ltd  
 Jensen Tools Inc  
 NeutrikAG



Prism Media Products Inc  
 Sample Rate Systems Oy  
 StageTech Developments AB  
 SyntheSys Research Inc  
 Techni-Tool Inc  
 Tektronix Inc  
 Telecommunications Techniques Corp  
 Viewtronics Ltd  
 Wavetek Corp/Instrument Div

## Frequency Counters

AAVS/Sencore  
 Anritsu Wiltron

**Belar Electronics Lab Inc**  
 Contact East Inc  
 J E Cuesta Co Inc  
 EIP Microwave Inc  
 Fluke Corp  
**Hewlett-Packard Co**  
 Jensen Tools Inc  
**Leader Instruments Corp**  
 MFJ Enterprises Inc  
 NeutrikAG  
 Newark Electronics  
 Pacific Coast Marketing  
 PTL Cable Service  
 Schmid TelecomAG  
 Simpson Electric  
 Stanford Research Systems  
 Techni-Tool Inc  
 Wavetek Corp/Instrument Div

## Meters, AC/Power Phase

F W Bell Inc  
 Contact East Inc  
 J E Cuesta Co Inc  
 DK-Audio  
 Dranetz Technologies Inc  
 Fieldpiece Instruments  
 Fluke Corp  
**Hewlett-Packard Co**  
 Holiday Industries Inc  
 Jensen Tools Inc  
**Leader Instruments Corp**  
 NeutrikAG  
 Newark Electronics  
 A W Sperry Instruments Inc  
 SSAC Inc  
 Techni-Tool Inc  
 Tektronix Inc  
 Viewsonics Inc  
 Wavetek Corp/Instrument Div

## Meters, Audio Level Indicators

AAVS/Advanced Audio Visual Systemes  
 Acoustech  
 ADM Systems  
 ATI-Audio Technologies Inc  
 Audioscope srl  
 B&B Systems Inc  
 Beck Associates Inc

## BOLAND COMMUNICATIONS

Boland Communications  
 Dwight Cavendish Co  
 Contact East Inc  
 Continental Electronics Corp  
 J E Cuesta Co Inc  
 DK-Audio  
 Dorrough Electronics  
 ENCO Systems Inc  
 Entertainment Technology Cable Inc  
**ESE**  
 FM Systems Inc  
 G Prime Ltd  
 GP Enterprises Inc  
**HORITA**  
 Image Video/Div of 1077541 Ontario Ltd  
 Inovonics Inc  
 JNS Electronics Inc  
**Leader Instruments Corp**  
 McCurdy Radio Industries Ltd  
 NeutrikAG  
 NTP ElektronikA/S  
 Praeltel International Pty Ltd  
 Radio Design Labs  
 Radio Systems Inc  
 Ram Broadcast Systems  
 RTW: Radiotechnische Werkstätten GmbH  
 Scantex Labs Inc  
 Selco Products Co  
 Sescom Inc  
 Simpson Electric  
 Solutec Ltd  
 Michael Stevens & Partners Ltd  
 Techni-Tool Inc  
 TFT Inc  
 Titus Technological Labs  
 Valley Audio/Galaxy Audio  
 Videoquip Research Ltd  
 Vortex Communications  
 Ward-Beck Systems Ltd

## Wohler Technologies

Innovative Audio Monitoring Systems

Wohler Technologies Inc

## Meters, DVMs, DMMs, VOM

F W Bell Inc  
 J E Cuesta Co Inc  
 Fieldpiece Instruments  
 Fluke Corp  
**Hewlett-Packard Co**  
 Image Video/Div of 1077541 Ontario Ltd  
**Leader Instruments Corp**  
 MilesTek Inc  
 NeutrikAG  
 Newark Electronics  
 Outland Technology Inc  
 Pacific Coast Marketing  
 PRECO (Broadcast Systems) Ltd  
 Rohde & Schwarz GmbH & Co Kg  
 Simpson Electric  
 A W Sperry Instruments Inc  
 Techni-Tool Inc  
 Triplett Corp  
 Wavetek Corp/Instrument Div

## Meters, Field Strength, RF Level

AAVS/Sencore  
 R B Annis Co Inc  
 Anritsu Wiltron  
 AVCOM of Virginia Inc  
 Coaxial Dynamics  
 Contact East Inc  
 Continental Electronics Corp  
 Eagle  
 EIP Microwave Inc  
 Holiday Industries Inc  
 Kathrein-Werke KG  
**Leader Instruments Corp**  
 Potomac Instruments Inc  
 PTL Cable Service  
 Rohde & Schwarz GmbH & Co Kg  
 A W Sperry Instruments Inc  
 Techni-Tool Inc  
 Tektronix Inc  
 Wavetek Corp/Instrument Div

## Meters, Photographic Light

**ASACA/ShibaSoku Corp of America**  
 Contact East Inc  
 FM Systems Inc  
 Graseby Optonics  
 Minolta Corp/Instrument Systems Div  
 Photomart Cine-Video Inc  
 A W Sperry Instruments Inc  
 Techni-Tool Inc  
 Tektronix Inc

## Meters, RF Power

Anritsu Wiltron  
 Bird Electronic Corp  
 Boonton Electronics Corp  
 Coaxial Dynamics  
 Contact East Inc  
 Continental Electronics Corp  
 J E Cuesta Co Inc  
 Dranetz Technologies Inc  
 EIP Microwave Inc  
 General Instrument Corp  
**Hewlett-Packard Co**  
**Leader Instruments Corp**  
 Loral Microwave-Narda  
 MFJ Enterprises Inc  
 PTL Cable Service  
 Rohde & Schwarz GmbH & Co Kg  
 Techni-Tool Inc  
 Triplett Corp  
 Viewsonics Inc

## Modulation Monitors



Aztec sa  
**Belar Electronics Lab Inc**

Boland Communications  
 Boonton Electronics Corp  
 Broadcast Equipment & Parts  
 Continental Electronics Corp  
 DavTronics  
 Della Electronics Inc  
 FM Systems Inc  
 GP Enterprises Inc  
**Hewlett-Packard Co**  
 Inovonics Inc  
 Modulation Sciences  
 Philips TV Test Equipment  
 QEI Corp  
 TFT Inc

## Oscilloscopes, Accessories

AAVS/Sencore  
 Broadcast Equipment & Parts  
 Contact East Inc  
 Continental Electronics Corp  
 Dranetz Technologies Inc  
 Fluke Corp  
**Hewlett-Packard Co**  
 Hitachi Denshi America Ltd  
 Jensen Tools Inc  
**Leader Instruments Corp**  
 NeutrikAG  
 Newark Electronics  
 Pacific Coast Marketing  
 Photomart Cine-Video Inc  
 PTL Cable Service  
 Techni-Tool Inc  
 Tektronix Inc  
 Test Probes Inc

## Recorder Tension, Alignment Equipment

NeutrikAG  
 PRECO (Broadcast Systems) Ltd  
**Tentel Corp**

## PC-based Displays; Interactive, Source ID, Tally

Image Video/Div of 1077541 Ontario Ltd



Tally Display Corp

## RF Generators

Anritsu Wiltron  
**ASACA/ShibaSoku Corp of America**  
 AVCOM of Virginia Inc  
 Fluke Corp  
 GP Enterprises Inc  
**Hewlett-Packard Co**  
 Kay Elemetrics Corp  
**Leader Instruments Corp**  
 Pacific Coast Marketing  
 Potomac Instruments Inc  
 PTL Cable Service  
 Rohde & Schwarz GmbH & Co Kg

## RF Load Resistors, Dummy Loads

Altronic Research Inc  
 Bird Electronic Corp  
 Broadcast Equipment & Parts  
 Coaxial Dynamics  
 Continental Electronics Corp  
 Dielectric Communications  
 Eagle  
 Electro Impulse Lab Inc  
 JFW Industries  
 LBA International  
 LBA Technology Inc  
 Loral Microwave-Narda  
 Marconi Communications Inc  
 MFJ Enterprises Inc  
 Micro Communications Inc  
 Phasetek Inc  
 RF Industries  
 Technosystem SPA  
 Trilithic Inc  
 UTE Microwave Inc  
 Wide Band Engineering Co Inc

# Product Directory

## SC/H Phase Measurement, Displays

**ASACA/ShibaSoku Corp of America**  
 Dranetz Technologies Inc  
 GEE Broadcast Systems Ltd  
 GP Enterprises Inc  
 Hamlet Video  
**Hewlett-Packard Co**  
 James Grunder & Associates Inc  
**Leader Instruments Corp**  
 Link Electronics Inc  
 Philips TV Test Equipment  
 Plateau Digital Technology  
 System Video  
 Techni-Tool Inc  
 Tektronix Inc  
 Telecommunications Techniques Corp  
**Videotek Inc**  
 Wiltronix Inc

## Test, Alignment Records, Tapes, CDs

Audio Intervisual Design  
 G Prime Ltd  
 Hamlet Video International Ltd  
 International Tapetronics Corp  
 KABA Research & Development  
 PRECO (Broadcast Systems) Ltd  
 Sprague Magnetics Inc

## Test Charts, Slides

Alpine Optics Inc  
 Nalpak Video Sales Inc  
 Photomart Cine-Video Inc

## Test, Alignment Tapes

Audio Intervisual Design  
 Hamlet Video International Ltd  
 International Tapetronics Corp  
 JRF Magnetic Sciences Inc  
 Photomart Cine-Video Inc  
 PRECO (Broadcast Systems) Ltd  
 Standard Tape Laboratory Inc

## Thermal Measuring Devices

Solder Absorbing Technology Inc/SAT  
 A W Sperry Instruments Inc  
 Techni-Tool Inc

## VITS, VIRS Generators, Inserters

AAVS/Advanced Audio Visual Systems  
**ASACA/ShibaSoku Corp of America**  
 GP Enterprises Inc  
 Image Logic Corp  
**Leader Instruments Corp**  
 Magni Systems  
**Multidyne Inc**  
 Philips TV Test Equipment  
 PTL Cable Service  
 System Video  
 Techni-Tool Inc  
 Tektronix Inc  
 Titus Technological Labs  
 VG Broadcast  
 Wiltronix Inc

## Time Domain Reflectometers

Anritsu Wiltron  
 Delta Electronics Inc  
 GP Enterprises Inc  
**Hewlett-Packard Co**  
 Joslyn Electronic Systems Corp  
 PTL Cable Service  
 Riser-Bond Instruments  
 Techni-Tool Inc  
 Tektronix Inc  
 Telecommunications Techniques Corp  
 Wavetek Corp/Instrument Div

## Video Signal Monitors

**C** Combo waveform/vector  
**S** In-picture videoscope  
**V** Vectorscope  
**W** Waveform  
**ASACA/ShibaSoku Corp of America C, V, W**

DT Electronics Ltd C, V, W  
 FM Systems Inc W  
 GP Enterprises Inc C, S, V, W  
 Hamlet Video C, S, V, W  
 Hamlet Video Int'l Ltd V, W  
 Hitachi Denshi America Ltd C, S, V, W  
 James Grunder & Associates Inc C, V, W  
**Leader Instruments Corp C, V, W**  
 Magni Systems V, W  
 Philips TV Test Equipment C, V, W  
 Photomart Cine-Video Inc V, W  
 PRECO (Broadcast Systems) Ltd C, S, V, W  
 PTL Cable Service C, S, V, W  
 SyntheSys Research Inc C, V, W  
 Techni-Tool Inc C, S, V, W  
 Tektronix Inc C, S, V, W  
 Telecommunications Techniques Corp W  
 Wavetek Corp/Instrument Div W  
 Wiltronix Inc W

## Video Generators

AAVS/Sencore  
**ASACA/ShibaSoku Corp of America**  
 Boland Communications  
 Burst Electronics Inc  
 BVE  
 Colorado Video Inc  
 DT Electronics Ltd  
 DTL Broadcast Ltd  
 EEG Enterprises Inc  
**ESE**  
 Extron Electronics  
 Fluke Corp  
 GEE Broadcast Systems Ltd  
 GP Enterprises Inc  
 Hamlet Video International Ltd  
 HEDCO  
**HORITA**  
 I-Den Videotronics Inc  
 Knox Video  
**Leader Instruments Corp**  
 Link Electronics Inc  
 Magni Systems  
 MicroVideo Ltd

## MULTIDYNE

**Multidyne Inc**  
 Network Technologies Inc  
 Pacific Coast Marketing  
 Philips TV Test Equipment  
 Practel International Pty Ltd  
 PRECC (Broadcast Systems) Ltd  
**Pro-Bel**  
 PTL Cable Service  
 Rohde & Schwarz GmbH & Co Kg  
 Snell & Wilcox  
 Stanford Research Systems  
 System Video  
 Techni-Tool Inc  
 Tektronix Inc  
 Tel-Test Inc

## trilogy

Trilogy Broadcast Ltd  
**Video Accessory Corp**  
**Videotek Inc**  
 Wiltronix Inc

## VSWR Indicators, Detectors

Eagle  
**Hewlett-Packard Co**  
 JFW Industries  
 Loral Microwave-Narda  
 MFJ Enterprises Inc  
 PTL Cable Service  
 Techni-Tool Inc

## Ancillary & Support Equipment

### EBS Eqpt

Continental Electronics Corp  
 Gorman-Redlich Mfg Co  
 GP Enterprises Inc  
 IRT Electronics Pty Ltd  
 JT Communications  
 Pacific Recorders & Engineering  
 T R Pitts Co  
 Technet Systems Group  
 TFT Inc  
 Video Data Systems

### Faders, Attenuators

ADM Systems  
 Audiomation/Sellmark  
 Audiomation Systems  
 Broadcast Devices Inc  
 D&R Electronica b.v.  
**ESE**  
 Mechatronic Elektronische Bauelemente  
 Georg Neumann GmbH  
 Penny & Giles Inc  
 Photomart Cine-Video Inc  
 Prefer / Ummels bv  
 QSC Audio Products Inc  
 Sascom Marketing Group  
 Shalico Inc  
 Siemens Audio Co  
 Tech Labs Inc

Daniel Weiss Engineering Ltd

## Acoustic Materials

ACM: Akustik und Studioplanungs GmbH  
 Acoustic Sciences Corp  
 Acoustic Systems  
 Acoustical Solutions Inc/  
 Broadcast Equipment & Parts  
 ilbruck inc  
 Industrial Acoustics Co  
 Lakeside Associates Inc  
 Netwell Noise Control  
 Photomart Cine-Video Inc  
 RPG Diffusor Systems Inc  
 Silent Source  
 Solidyne  
 Sonex/Ilbruck Inc  
 Systems Development Group Inc  
 USAFoam  
 Wave:Space Inc

## Attenuators, Fixed, Impedance Matching

Alcatel Components  
 Allen Avionics Inc  
 Atlas/Soundolier - Atapco Security & Com  
**Canare Cable Inc**  
 Comark Communications Inc  
 Comband/Microwave Filter Co  
 Dielectric Communications  
 EDCOR Electronics  
**ESE**  
 FSR Inc  
 Har-Ken Specialties  
**Hewlett-Packard Co**  
 JFW Industries  
 Kintronic Labs Inc  
 Loral Microwave-Narda  
 Penstock Inc  
 Photomart Cine-Video Inc  
 PTL Cable Service  
 Radio Design Labs  
 RF Industries  
 Sescom Inc  
 Tech Labs Inc  
 3M Telecom Markets  
 Trilithic Inc  
 Trompeter Electronics Inc

## Batteries, Chargers, Analyzers, Reconditioners

Adcour Inc  
 Alexander Batteries  
 Anton/Bauer Inc  
 Broadcast Equipment & Parts  
 Cadex Electronics Inc  
 Christie Electric Corp  
 Cine 60 Inc  
 Computer Power Inc  
 Contact East Inc  
 Duracell USA  
 Energex Systems Corp  
 Frezzolini Electronics Inc  
 G&M Power Products  
 Alan Gordon Enterprises Inc

**AS-101  
Audio Switcher**

- Illuminated and legible control buttons
- Instant or overlap switching
- Front panel accessible level controls
- Options include: RS-232 interface, remote control, relay-follow-switch outputs
- Network proven quality and reliability

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**Conex Electro-Systems, Inc.**

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# Product Directory

Gray Supply Co  
HM Electronics Inc  
Indus-Tool  
Light Wave Systems  
Newark Electronics  
NRG Research  
ORA Electronics  
Paco Electronics USA Inc  
PAG Ltd  
PEP Inc  
Periphex Inc  
PERROTT 'The Battery People'  
Photomart Cine-Video Inc  
Pro Battery Inc  
Rathbone Energy Systems Inc  
Reliance Comm/Tec  
Sony Business & Professional Group  
Synergistic Batteries Inc  
Systems Wireless Ltd  
Techni-Tool Inc  
Total Concept Sales  
Tungstone Batteries Inc  
United States Broadcast  
Victory Battery Co  
Whirlwind  
ZZzap Power

## Blowers, Fans

Atlas/Soundolier - Atapco Security & Com  
BGW Systems Inc  
Broadcast Equipment & Parts  
Bud Industries Inc  
J E Cuesta Co Inc  
Electrorack Products Co  
Emcor Products  
General Devices Co Inc  
Newark Electronics  
RVP Inc  
Winsted Corp

## Capacitors, HV

Audio Intervisual Design  
Broadcast Equipment & Parts  
Peter Dahl Co Inc  
Jelmax Co Ltd  
Newark Electronics  
NWL Capacitors  
Philips Components  
Plastic Capacitors Inc  
Surcom Associates Inc

## Carts, A/V Eqpt Utility

Advance Products Co  
Anthro Corp  
Audiopak Inc  
Bretford Mfg Inc  
Clipper Products  
Creative Engineering  
Display Devices Inc  
Ferno Salesmaker  
Alan Gordon Enterprises Inc  
Hoodman Corp

**REMIN**  
**KART-a-BAG**

**Kart-A-Bag**  
Lucasey Mfg Corp  
Luxor Corp  
Nalpak Video Sales Inc  
Neumade Products Corp  
Parsons Mfg Corp  
Peerless Industries Inc  
Perma Power Electronics Inc  
Photomart Cine-Video Inc  
PRECO (Broadcast Systems) Ltd  
Sonifex Ltd  
Star Case Mfg Co Inc  
Techni-Tool Inc  
Vantage Point Products Corp  
Winsted Corp

## Cases, Eqpt Transport, Tape Shippers

Aarmor Case Co  
Anvil Cases  
ASA Productions  
Bud Industries Inc  
Calzone Case Co  
Clipper Products  
Creative Engineering  
CSI Camera Support International

Duracase Corp  
EDAK  
Entertainment Technology Cable Inc  
Future Case  
Alan Gordon Enterprises Inc  
Hardigg Cases, A Div of  
**Hewlett-Packard Co**  
Howe Industries  
IPK Broadcast Systems  
Island Cases  
Kangaroo Video Products Inc

**REMIN**  
**KART-a-BAG**

**Kart-A-Bag**  
K&H Products Ltd  
Lightware Inc  
LM Engineering Inc  
MilesTek Inc  
Nalpak Video Sales Inc  
Neumade Products Corp  
Newark Electronics  
Parsons Mfg Corp  
Penn Fabrication Inc  
Photomart Cine-Video Inc  
Plastic Reel Corp of America  
Power Mark Case Corp  
Reliance Plastics & Packaging  
Rip-Tie  
RTI-Research Technology International  
SKB Case Co  
Star Case Mfg Co Inc  
Techni-Tool Inc  
Tek Media Supply Co  
Telepak San Diego  
Thermodyne International Ltd  
Viewsonics Inc  
Viking Cases

## Cleaning, Conditioning Treatments

**T Abrasives, abrasive tapes**  
**C Contact Enhancement**  
CAIG Laboratories Inc



**STABILANT 22**

DW Electrochemicals Ltd  
E C Mitchell Co Inc  
Pacific Radio Electronics  
Tayo Industries  
Techni-Tool Inc  
TECH-SA-PORT  
Tek Media Supply Co  
3M Telecom Markets

## Clocks

AAVS/Advanced Audio Visual Systems  
Autogram Corp  
AVS Graphics Ltd  
BAI Systems Inc  
ChronTrol Corp  
W Clark & Associates  
Continental Electronics Corp  
DTL Broadcast Ltd



**ESE**  
Evertz Microsystems Ltd  
GP Enterprises Inc  
HES Electronics  
**HORITA**  
**Leitch Inc**  
maney-logic  
Practel International Pty Ltd  
Radio Systems Inc  
Ram Broadcast Systems  
Sonifex Ltd  
Tally Display Corp



**TORPEY**  
**TIME**

Torpey Controls  
Vortex Communications

## Components, Active

DATA Business Publishing  
DT Electronics Ltd  
Gennum Corp  
Pacific Radio Electronics  
Penstock Inc  
Valley Audio/Galaxy Audio

## Connectors, All Types

AAVS/Advanced Audio Visual Systems  
ADC Telecommunications Inc  
Alcatel Components  
Alpha Wire Corp  
AMP  
Audio Accessories Inc  
Avtech Systems Inc  
Broadcast Equipment & Parts  
**Cablewave Systems**

**CANARE**

**Canare Cable Inc**  
Carmen Abato Enterprises Inc/CAE  
Clark Wire & Cable  
Cole Wire & Cable Co Inc  
Comark Communications Inc  
COMWAVE  
Connectronics Corp  
Deltron Components  
DGS ProAudio  
Edac Inc  
Extron Electronics



**GEPCO INTL INC**  
**CHICAGO, IL**

**Gepco International Inc**  
Har-Ken Specialties  
Richard Hirschmann GmbH  
Hubbell Inc  
Imagine Products Inc  
Jensen Tools Inc  
Kings Electronics Co Inc  
LBA International  
LBA Technology Inc  
Lemo USA  
Marshall Electronics Inc  
MilesTek Inc  
Nemal Electronics Int'l Inc  
Neutrik AG  
Neutrik USA Inc  
Newark Electronics  
OMB Sistemas Electrónicas AB  
ORA Electronics  
Panduit Corp  
Penstock Inc  
Photomart Cine-Video Inc  
T R Pitts Co  
Rapco International  
Reliance Comm/Tec  
RF Industries  
Siecor Corp  
SIRA Sistemi Radio  
Specialty Connector  
**Switchcraft Inc**  
TASCAM  
Techni-Tool Inc  
Technosystem SPA  
Tenco Tower Co  
Teracom Components AD  
3M Telecom Markets  
Trompeter Electronics Inc  
Union Connector  
VEAM/Litton Systems Inc  
Viewsonics Inc  
Whirlwind  
Wireworks Corp  
Woods Industries Inc

## Components, Passive

Audiomation/Sellmark  
Broadcast Equipment & Parts

Comark Communications Inc  
Comband/Microwave Filter Co  
DT Electronics Ltd  
JFW Industries  
Kintronic Labs Inc  
Lamp Technology  
LBA International  
LBA Technology Inc  
Ledtronics Inc  
Mechatronic Elektronische Bauelemente  
Newark Electronics  
Phasetek Inc  
Plastic Capacitors Inc  
UTE Microwave Inc  
Vantage Lighting Inc  
Veetronix Inc

## Fiber-Optic Components



ADC Telecommunications Inc  
Alcatel Components  
Alcatel STR  
AMP  
Artel Communications  
Avtech Systems Inc  
BEC Technologies Inc  
C-COR Electronics Inc  
Clark Wire & Cable  
Diamond SA  
DiCon Fiberoptics Inc  
DT Electronics Ltd  
DYNAIR Electronics Inc  
Entertainment Technology Cable Inc  
ESP-Extraordinarily Superior Products  
**Fiber Options Inc**  
Force Inc  
Fotec Inc  
GEE Broadcast Systems Ltd  
Grass Valley Group  
**Intraplex Inc**  
Iptek  
IRT Electronics Pty Ltd  
Kathrein-Werke KG  
**Leitch Inc**  
Lightwave Communications Inc  
Lightwave Systems  
Meret Optical Communications Inc  
MilesTek Inc



**Multidyne Inc**  
NVision Inc  
Ortel Corp  
Philips Broadband Networks Inc  
T R Pitts Co  
Practel International Pty Ltd  
ProBot Communications  
Siecor Corp  
SSL Industries Inc  
Techni-Tool Inc

**Telecast**  
**Fiber Systems, Inc.**

Telecast Fiber Systems  
Telect Inc  
Telemetrics Inc  
3M Telecom Markets  
TMT electronics AG  
**Toshiba Corp**  
T-Tech Corp  
United Technologies Photonics Inc  
VEAM/Litton Systems Inc  
VYVX Inc  
Wavetek Corp/Instrument Div  
Daniel Weiss Engineering Ltd  
Wiltronix Inc

## Film Cleaning, Inspection, Processing Eqpt

Alan Gordon Enterprises Inc  
Image Design Film Technologies

# Product Directory

Lipsner-Smith Co  
Neumade Products Corp  
Options International  
Photomart Cine-Video Inc  
RTI-Research Technology Int'l  
Steenbeck Inc  
Techni-Tool Inc  
Tek Media Supply Co

## Filters, Video Hum-reduction

Alcatel Components  
Allen Avionics Inc  
APS Professional Video Products  
Audio-Video Engineering Co  
Broadcast Video Systems Ltd  
Comband/Microwave Filter Co  
Deerfield Laboratory  
DT Electronics Ltd  
FM Systems Inc  
ict of North America  
IRT Electronics Pty Ltd  
KR Electronics Inc  
Microwave Filter Co Inc  
North Hills Electronics Inc  
North Hills Signal Processing  
Photomart Cine-Video Inc  
Sabine Inc  
Television Equipment Associates  
Transvideo SA  
TTE Inc  
TV Equipment - Matthey  
**Video Accessory Corp**

## Hardware, Eqpt Mounting

AAVS/Advanced Audio Visual Systems  
Adtec Productions Inc  
BGW Systems Inc  
Dwight Cavendish Co  
Continental Electronics Corp  
General Devices Co Inc  
GKM Mfg Corp  
IPK Broadcast Systems  
Keystone Metal Products Inc  
Lucasey Mfg Corp  
Newton Instrument Co Inc  
Nigel B Furniture  
Peerless Industries Inc  
Photomart Cine-Video Inc  
Pivotelli/USA - Grant Products Inc  
PRECO (Broadcast Systems) Ltd  
Rip-Tie  
Roll-A-Reel Co  
Siecor Corp  
SVS Inc  
Theatre Service & Supply Corp  
Viewsonics Inc  
Winsted Corp

## Labels, Adhesive-backed

Entertainment Technology Cable Inc  
MilesTek Inc  
Panduit Corp  
Photomart Cine-Video Inc  
Polyline Corp  
Professional Label Inc  
Siecor Corp  
Techni-Tool Inc  
3M Telecom Markets  
United Ad Label Co Inc  
US Tape & Label Corp  
Video-Matic Group

## Lights, Studio On-air Warning

AAVS/Advanced Audio Visual Systems  
Ac-cetera Inc  
Broadcast Equipment & Parts  
Fidelipac Corp  
Lenbar Electronics Corp  
L E Nelson Sales Corp  
Ogenic Technologies  
Photomart Cine-Video Inc  
Titus Technological Labs  
Vantage Lighting Inc

## Patch Panels, Accessories, Cables

AAVS/Advanced Audio Visual Systems  
Ac-cetera Inc



ADC Telecommunications Inc  
Alcatel Components  
AMP  
Audio Accessories Inc  
Avitel Electronics Ltd  
AVP Manufacturing & Supply Inc  
Berk-Tek Inc  
BFE Fernmelde Technik & Elektronik AG  
BGW Systems Inc  
Broadcast Equipment & Parts



**Canare Cable Inc**  
Clark Wire & Cable  
Cole Wire & Cable Co Inc  
Connectronics Corp  
Continental Electronics Corp  
Dielectric Communications  
DT Electronics Ltd  
DTL Broadcast Ltd  
East Coast Video Systems  
Entertainment Technology Cable Inc  
**Ergo**  
Furman Sound Inc  
Gentner Communications Corp



GEPCO INTL INC  
CHICAGO, IL

**Gepco International Inc**  
Har-Ken Specialties  
ITI Electronics Inc  
**Jampro Antennas Inc**  
Jem-Fab Corp  
Kings Electronics Co Inc  
Kintronic Labs Inc  
Lenbar Electronics Corp  
McCurdy Radio Industries Ltd  
Micro Communications Inc  
MilesTek Inc  
Mogami / Mit Inc  
Nemal Electronics Int'l Inc  
Neutrik USA Inc  
OEI Electronics Systems Inc  
Packaged Lighting Systems Inc  
Panduit Corp  
Penny & Giles Inc  
Photomart Cine-Video Inc  
Plasmelec Systems Ltd  
Practel International Pty Ltd  
PRECO (Broadcast Systems) Ltd



Ram Broadcast Systems

Rapco International  
RCI Systems Inc  
Rean Products  
Rip-Tie  
Siecor Corp  
SIRA Sistemi Radio  
**Switchcraft Inc**  
TASCAM  
Techni-Tool Inc  
Trompeter Electronics Inc  
Videoquip Research Ltd  
Whirlwind  
Wiltronix Inc  
Woods Industries Inc

## Phase Converters, 1-to-3 Phase

Adcour Inc  
Alcatel Components  
Continental Electronics Corp  
J E Cuesta Co Inc  
Kay Industries Inc  
Reliance Comm/Tec  
Total Concept Sales  
ZZzap Power

## Power Generators, SStandby

Adcour Inc  
Alpha Technologies  
Best Power  
Brooks Power Systems  
Computer Power Inc  
Contact East Inc  
J E Cuesta Co Inc  
Deltec Electronics Corp  
EFI Electronics  
Electripak/Thomas & Betts Corp  
Square D - EPE  
Exeltech  
Exide Electronics Group Inc  
FWT  
Indus-Tool  
Instrumentation & Control Systems Inc  
Kalglo Electronics Co Inc  
Kensington Microwave Ltd  
LEA Dynatech  
Liebert Corp  
Marcom  
Meirick Inc  
Northern Technologies Inc  
On-Line Power  
Perma Power Electronics Inc  
T R Pitts Co  
Pulizzi Engineering Inc  
Rathbone Energy Systems Inc  
Reliance Comm/Tec  
Sanrex Corp/Micro Ups Div  
Schwalm & Associates  
Staco Energy Products Co  
Superior Electric  
Teledyne Brown Engineering  
Tripp Lite  
TSI Power Inc  
United Power Corp  
Vanner-Weldon Inc



ZZzap Power

## Power Line Conditioners

Adcour Inc  
Alpha Technologies  
Andrew Corp  
Best Power  
Broadcast Equipment & Parts  
Brooks Power Systems  
Columbine Systems Inc  
Computer Power Inc  
Contact East Inc  
Continental Electronics Corp  
Control Concepts Corp  
J E Cuesta Co Inc  
Current Technology Inc  
Curtis Mfg Co  
Peter Dahl Co Inc  
Deltec Electronics Corp  
EFI Electronics  
Electripak/Thomas & Betts Corp  
Square D - EPE  
Exide Electronics Group Inc  
Furman Sound Inc  
FWT  
G C Thorsen Inc  
Hipotronics Inc  
Hubbell Inc  
Indus-Tool  
Innovative Technology Inc  
Joslyn Electronic Systems Corp  
Kalglo Electronics Co Inc  
LEA Dynatech  
Liebert Corp  
Lightning Eliminators & Consultants  
Lightning Master Corp  
Lightning Prevention Systems  
Lyncole XIT Grounding  
Marcom  
MCG Electronics Inc  
Meirick Inc  
Newark Electronics  
Northern Technologies Inc  
On-Line Power  
Pacific Radio Electronics  
Perma Power Electronics Inc  
PolyPhaser Corp  
Power Integrity Corp  
Pulizzi Engineering Inc  
Reliance Comm/Tec  
Shintron Co Inc  
Staco Energy Products Co  
Superior Electric  
Techni-Tool Inc  
Total Concept Sales  
Transtector Systems Inc  
Tripp Lite  
TSI Power Inc  
United Power Corp  
Westinghouse  
Woods Industries Inc  
Xentek Inc  
ZZzap Power

serial digital!



C10 SERIES  
SERIAL/PARALLEL CONV.



D10C  
SERIAL 4:2:2 to RGB/YUV



D10E  
SERIAL 4:2:2 to NTSC/PAL

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Grass Valley, California

**800-251-4224**

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# Product Directory

## Lightning Protection Equipment

Lawrence Behr Associates Inc  
Broadcast Equipment & Parts  
Cortana Corp  
ERI - Electronics Research  
Joslyn Electronic Systems Corp  
Lightning Deterrent Corp  
Lightning Eliminators & Consultants  
Lightning Master Corp

## LIGHTNING PREVENTION SYSTEMS

Lightning Prevention Systems  
Perma Power Electronics Inc  
Pulizzi Engineering Inc  
Sine Control International Corp  
Teracom Components AD  
Tower Network Services  
United Power Corp

## Racks, Equipment Enclosure

Aarmor Case Co  
AAVS/Advanced Audio Visual Systems  
Adcour Inc  
Adtec Productions Inc  
Allen Avionics Inc  
Amco Engineering Co  
AMP  
Andrew Corp  
Arrakis Systems  
Atlas/Soundolier -  
Atapco Security & Com  
Audio Interviewal Design  
Avitel Electronics Ltd  
Avitech Systems Inc  
Beck Associates Inc  
BFE Fernmelde Technik & Elektronik AG  
BGW Systems Inc  
Bud Industries Inc  
Dwight Cavendish Co  
Computer Power Inc  
COMWAVE  
Continental Electronics Corp  
Creative Engineering  
J E Cuesta Co Inc  
Delta Designs  
EDAK  
Electrorack Products Co  
Emcor Products  
Equipto Electronics Corp  
Ergo  
Future Case  
FWT  
General Devices Co Inc



GEPCO INTL INC  
CHICAGO, IL

**Gepco International Inc**  
GKM Mfg Corp  
Hardigg Cases, A Div of  
**Hewlett-Packard Co**  
Industrial Computer Source  
IPK Broadcast Systems  
JNS Electronics Inc  
Keystone Metal Products Inc  
Kintronic Labs Inc  
**Leader Instruments Corp**  
Lenbar Electronics Corp  
Leprecon/CAE Inc  
Marco Inc

Marcom  
Meret Optical Communications Inc  
Nalpak Video Sales Inc  
Neumade Products Corp  
Newark Electronics  
Newton Instrument Co Inc  
OEI Electronics Systems Inc  
Ogenic Technologies  
Old Dominion Broadcast Eng Service  
Pacific Radio Electronics  
Pacific Recorders & Engineering  
Packaged Lighting Systems Inc  
Penn Fabrication Inc  
Perma Power Electronics Inc  
Philips TV Test Equipment

Photomart Cine-Video Inc  
T R Pitts Co  
Power Mark Case Corp  
PRECO (Broadcast Systems) Ltd  
Ram Broadcast Systems  
Rip-Tie  
Roll-A-Reel Co  
Ruslang Corp  
Sescom Inc  
Skaggs Telecommunications Svcs  
Sound Designers Studio  
Stantron Cabinets  
Systlex SA  
TASCAM  
Tek Media Supply Co  
Total Concept Sales  
Vantage Point Products Corp  
Winsted Corp  
Zero Stantron

## Recorder Care, Recording Accessories

R B Annis Co Inc  
Keith Monks Sound Systems  
Polyline Corp  
Sony Recording Media  
Sprague Magnetics Inc  
TASCAM  
Tek Media Supply Co

## Security Systems/Services

Boland Communications  
CCTV Corp  
Cohu Electronics Div  
Crestron  
Fast Forward Video  
FM Systems Inc  
Ikegami Electronics (USA) Inc  
Marshall Electronics Inc  
Meret Optical Communications Inc  
Panasonic Broadcast & Television  
Photomart Cine-Video Inc  
T R Pitts Co  
Practel International Pty Ltd  
QSI Systems Inc  
Sage Alerting Systems Inc  
Sony Business & Professional  
SSL Industries Inc  
Systems Wireless Ltd  
THORN Automated Systems Inc  
Tron-Tek Inc  
Viewsonics Inc  
Visual Methods Inc  
Winsted Corp

## Reels, Cable

AAVS/Advanced Audio Visual Systems

## LEANARE

**Canare Cable Inc**  
Clark Wire & Cable  
Cole Wire & Cable Co Inc  
COMWAVE  
Entertainment Technology Cable Inc



GEPCO INTL INC  
CHICAGO, IL

**Gepco International Inc**  
The Kurlly Tie Co  
Marshall Electronics Inc  
Miles Tek Inc  
Nalpak Video Sales Inc  
Pacific Radio Electronics  
Photomart Cine-Video Inc  
T R Pitts Co  
PRECO (Broadcast Systems) Ltd  
Rapco International  
Roll-A-Reel Co  
Whirlwind

## Shielding, RFI/EMI

Alpha Wire Corp  
Lawrence Behr Associates Inc  
J E Cuesta Co Inc  
EDAK  
Electrorack Products Co  
Jensen Tools Inc  
LBA Technology Inc

Marcom  
Newark Electronics  
3M Telecom Markets

## Static Suppressors, Environmental Controls

Kintronic Labs Inc  
Techni-Tool Inc  
TECH-SA-PORT  
3M Telecom Markets

## Storage Systems

Electrorack Products Co  
Keystone Metal Products Inc  
The Kurlly Tie Co  
Major Engineering  
Media Touch Systems Inc  
Mobile Media  
Neumade Products Corp  
Newton Instrument Co Inc  
Nigel B Furniture  
Photomart Cine-Video Inc  
Plastic Reel Corp of America  
PRECO (Broadcast Systems) Ltd  
Ruslang Corp  
Star Case Mfg Co Inc  
Storeel Corp  
Tape Storage Systems-TCS  
3M Professional A/V & Specialty Products  
Tripp Communications Sales-TCS  
Winsted Corp

## Studio Scenery, Draperies, Sets, Furnishings

Arrakis Systems  
Beck Associates Inc  
Creative Engineering  
The Denny Mfg Co Inc  
Forecast Consoles Inc  
Lake Cabinet Systems  
Lakeside Associates Inc  
Lumitrol Ltd  
Nigel B Furniture  
Photomart Cine-Video Inc

## RAM

Ram Broadcast Systems  
Theatre Service & Supply Corp  
Uni-Set Corp  
Videssence  
**Wheatstone Corp**

## Tape Cleaners, Evaluators, Conditioners

**ASACA/ShibaSoku Corp of America**  
Audio Interviewal Design  
Carpel Video  
Data Security Inc  
MSE Video Tape Services  
Recortec Inc  
RTI-Research Technology Int'l  
Sony Recording Media  
TASCAM  
Tek Media Supply Co

## Tape Loaders, Rewinders

Gauss  
Recortec Inc  
RTI-Research Technology Int'l  
TASCAM  
Tek Media Supply Co

## Tape & Head Degaussers; Tape Erasers

R B Annis Co Inc  
Audiolab Electronics Inc  
Continental Electronics Corp  
Data Security Inc  
Garner Industries  
Photomart Cine-Video Inc  
PRECO (Broadcast Systems) Ltd  
RTI-Research Technology Int'l  
Sanix Corp  
Sprague Magnetics Inc  
Taber Mfg & Engineering Co  
TASCAM

Techni-Tool Inc  
Tek Media Supply Co  
Videomagnetics Inc  
Weircliffe International Ltd  
Wide Range Electronics Corp

## Tools, Kits

Alpha Wire Corp  
AMP  
Black Audio Devices

## LEANARE

**Canare Cable Inc**  
Contact East Inc  
Fotec Inc  
Jensen Tools Inc  
Miles Tek Inc  
Newark Electronics  
ORA Electronics  
PACE Inc  
Pacific Radio Electronics  
Photomart Cine-Video Inc  
Siecior Corp  
TASCAM  
Techni-Tool Inc  
3M Telecom Markets  
Trompeter Electronics Inc  
Weidmuller Inc/Paladin Tools  
Western Electronic Production

## Vehicles, Production/ENG/SNV

### P Van-top camera platform

BAF Communications Corp  
**BTS Broadcast Television Systems**  
Calumet Coach Co  
Carter Cartop Mfg Co  
Communications & Power Industries  
Custom Mobile Products Inc  
E-N-G Mobile Systems Inc  
FM Systems Inc  
Frontline Communications  
Harris Corp/Broadcast Div  
IPK Broadcast Systems  
Phoenix ENG  
Rathbone Energy Systems Inc  
Rea Electronics  
Shook Electronics USA Inc  
Synergistic Technologies Inc  
Television Engineering Corp  
Vitron Systems  
Wolf Coach Inc

## Voltage Regulators

Broadcast Equipment & Parts  
Contact East Inc  
Continental Electronics Corp  
FM Systems Inc  
Furman Sound Inc  
Indus-Tool  
Marcom  
Perma Power Electronics Inc  
Staco Energy Products Co  
Superior Electric  
United Power Corp

## Wire, Cable, FO materials

**A Audio, all types**  
**C Coaxial, triaxial**  
**O Optical fiber**  
**S Assemblies**  
**V Video component cable**  
**W Wire/cable management systems, labels, strips**

AAVS/Advanced Audio Visual Systems A, C, V  
ADC Telecommunications Inc o, W  
Alcatel Components A, C, O, V, W  
Alpha Wire Corp A, C, O, V  
AMP C, O  
APS Professional Video Products A, V  
Avtech Systems Inc A, C, O, V, W  
**Belden Wire & Cable Co A, C, O**  
Berk-Tek Inc C, O, V  
Broadcast Equipment & Parts A, C

# Product Directory

## CANARE

**Canare Cable Inc** A, C, V  
 Carmen Abato Enterprises Inc/CAE A, C, V  
 Clark Wire & Cable A, C, O, V  
 Cole Wire & Cable Co A, C, O, V  
 Comark Communications Inc C  
 COMWAVE C  
 Concept W Systems Inc C  
 Connectronics Corp A, C, V  
 Continental Electronics Corp A, C  
 DGS Pro Audio A  
 Diamond SA O  
 Entertainment Technology Cable Inc A, C, O, V  
 Extron Electronics C  
**Fiber Options Inc** O  
 FMAcoustics Ltd A  
 Fotec Inc O  
 Full Compass Systems Ltd A, C  
 Gabriel Electronics Inc C  
 GC Thorsen Inc C



**GEPCO INTL INC**  
**CHICAGO, IL**

**Gepeco International Inc** A, C, O, V  
 Gotham Ltd A  
 HAVE Inc S  
 ict GmbH C, V  
 Inline Inc C, V  
 Insulated Wire Inc C  
 Jensen Tools Inc C, O  
 J-Lab V  
 The Kurly Tie Co W  
 Lemo USA O  
 Lenbar Electronics Corp A, C, V  
 Lightwave Communications Inc O  
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 Rapco International A, C, O, V, W  
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 The Rip-Tie Co W  
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 SCV Audio A  
 Siecor Corp O  
 SSL Industries Inc O  
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 Techflex Inc A, W  
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## Telecast Fiber Systems, Inc.

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 Trompeter Electronics Inc C  
 VEAM/Litton Systems Inc O  
 West Penn Wire/CDT A, C  
 Whirlwind C  
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 Woods Industries Inc C

## Services

### Antenna, Tower Installation, Maintenance

**Andrew Corp**  
**Antenna Concepts Inc**  
 Arden Technologies Inc  
 John H Battison PE & Assoc  
 Broadcast Communications CMBE  
 Alan Dick & Co Ltd  
 Doty-Moore Tower Services  
 ERI - Electronics Research  
 Express Tower Co  
 Flash Technology Corp of America  
 Frontier Communications Corp  
 Gabriel Electronics Inc  
 JFW Industries  
 Kline Towers  
 LDL Communications Inc  
 LeBlanc & Royle Telcom Inc  
 Lightning Master Corp  
 Malouf Engineering International  
 Marcom  
 Marconi Communications Inc  
 Microflect Co Inc  
 NTL  
 RIZ-Transmitters Co  
 ROHN  
 Stainless Inc  
 Southern Illinois Antennas  
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 Technosystem SPA  
 Telefunken Sendertechnik GmbH  
 Teletech Inc  
 Tenco Tower Co  
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 Transmission Structures Ltd.  
 Trylon Towers  
 TWR Lighting Inc

Utility Tower Co  
 Valmont Industries/ICPD

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Broadcast Cartridge Service  
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 Advent Communications Ltd  
 AEQ SA  
 AF Associates Inc  
 John P Allen/Airspace Consultant  
 Alpha Video & Electronics Co  
 Andrew Corp  
 Eric Neil Angevine PE  
 APS Professional Video Products  
 Astre Systems Inc  
 Audio Intervisual Design  
 Audix Broadcast Ltd  
 The Austin Co  
 BAI Systems Inc  
 The Baranti Group Inc  
 Barbizon Light  
 John H Battison PE & Assoc  
 B&B Systems Inc  
 Beck Associates Inc  
 Franklyn R Beemish  
 Lawrence Behr Associates Inc  
 BFE Fernmelde Technik & Elektronik AG  
 Richard W Burden Associates  
 Dwight Cavendish Co  
 Center Video Industrial Co Inc  
 CMBE  
 Communications Data Service Inc  
 Communications Design Associates  
 COMSAT Video Distribution  
 COMWAVE  
 Continental Electronics Corp  
 Continental Microwave Ltd  
 J E Cuesta Co Inc  
 Robert J Dame/Airspace Consultant  
 Dataworld Inc  
 John J Davis & Associates  
 Doty-Moore Tower Services

## DSI VIDEO SYSTEMS, INC.

DSI Video Systems Inc  
 East Coast Video Systems  
 EDR Systems  
 Elcom Bauer  
 ELIT-Elettronica Italiana SpA  
 EMCEE Broadcast Products  
 Entertainment Technology Cable Inc  
 ESP-Extraordinarily Superior Products  
 Flash Technology Corp of America  
 Frontier Communications Corp  
 Full Compass Systems Ltd  
 GEE Broadcast Systems Ltd  
 General Microwave Services Inc  
 Grozik Associates  
 Harris Corp/Broadcast Div  
 Hero Productions  
 Richard Hirschmann GmbH

HN Telecom Inc  
 ict GmbH  
 Image Logic Corp  
 Intelix Corp  
 IPK Broadcast Systems  
 IRIS Technologies Inc  
 JMS & Associates Inc  
 JT Communications  
 Keystone Communications  
 Kezvale Ltd  
 Kintronic Labs Inc  
 Kopps Corp  
 Ron Krob Technical Consultant  
 Lakeside Associates Inc  
 Lightguide Productions  
 Loma Scientific International  
 LPB Inc  
 Lumitrol Ltd  
 Malouf Engineering International  
 Marcom  
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 Media Touch Systems Inc  
 Mediatron GmbH  
 Mehalko Communications  
 Menlo Scientific Acoustics  
 Micro Communications Inc  
 Microflect Co Inc  
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 Lawrence L Morton Associates  
 National Supervisory Network  
 Nesbit Systems Inc  
**Netcom**  
 Newman-Kees Freq Measurements  
 The Nissen Group Inc  
 NTL  
 OEI Electronics Systems Inc  
 Ogden Technologies  
 Old Dominion Broadcast Eng Service  
 OMB Sistemas Electronicos AB  
 Pauza & Co Ltd  
 Philips TV Test Equipment  
 Powercet Corp  
 Professional Management Services  
 Radiotechniques Engineering Corp  
 Ram Broadcast Systems  
 Rees Associate Inc  
 A D Ring PA  
 RIZ-Transmitters Co  
 Ronde & Schwarz GmbH & Co Kg  
 Rosner Television Systems Inc  
 ScheduALL by VizuAll Inc  
 Scientel  
 Smith and Fisher  
 George R Snell Associates  
 SoftWright LLC  
 Solidyne  
 Sony Business & Professional  
 Southern Illinois Antennas  
 Standard Frequency Measuring Service  
 SWR Inc  
 Synergistic Technologies Inc  
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VDO Ltd  
Doug Vernier Telecommunications  
Video Engineering Ltd  
Videssence  
Vizcom/Satellite Systems  
Walter Brewer Corp  
Walters-Storyk Design Group  
Wave:Space Inc  
Wind River Broadcast Center



**Wohler Technologies Inc**  
Wolf Coach Inc

## Editing, Post Production Facilities

Beachwood Studios  
Franklyn R Beemish  
Center Video Industrial Co Inc  
Cycle-Sat Inc  
FM Systems Inc  
John Gorrell Woodworking  
HAVE Inc  
Hero Productions  
Image Video Teleproductions Inc  
METROPOST  
Qutron  
Steenbeck Inc  
Tayo Industries  
Video Dub Inc  
West Side Video

## Employment Services

Communication Resources  
Keystone Int'l Inc  
James Lloyd Group  
SBE-Society of Broadcast Engineers  
Tayo Industries

## Equipment Rebuilding, Reconditioning, Customizing

Alpha Video & Electronics Co  
Astre Systems Inc  
BC Video Services  
Richard W Burden Associates  
Dwight Cavendish Co  
Center Video Industrial Co Inc  
Century Precision Optics  
Chapman/Leonard Studio Equipment Co  
Chapman/Leonard Studio & Production  
CMBE  
Crookwood  
John Gorrell Woodworking  
Hall Electronics  
**Hewlett-Packard Co**  
JRF Magnetic Sciences Inc  
Kintronic Labs Inc  
Lumitrol Ltd  
Micro Communications Inc  
NTSC Productions  
Old Dominion Broadcast Eng Service  
Panasonic Broadcast & Television  
Paauz & Co Ltd  
PERROTT 'The Battery People'  
PRECO (Broadcast Systems) Ltd  
Specialized Communications  
SWR Inc  
Synergistic Technologies Inc  
Tayo Industries  
Technosystem SPA  
**Thomcast**  
Video Engineering Ltd

## Equipment Rental, Leasing, Brokers

APS Professional Video Products  
Audio Intervisual Design  
Balboa Capital Corp  
BDL Autoscript  
Beachwood Studios

CamMate Systems/Studios  
Center Video Industrial Co Inc  
Chapman/Leonard Studio Equipment Co  
Chapman/Leonard Studio & Production  
Continental Electronics Corp  
Equipment Broker Inc  
Full Compass Systems Ltd  
General Microwave Services Inc  
Alan Gordon Enterprises Inc  
ict GmbH  
Image Video Teleproductions Inc  
Innovation Optics  
Maze Technology  
Mole-Richardson Co  
NTSC Productions  
Old Dominion Broadcast Eng Service  
OpTex  
Paauz & Co Ltd  
PERROTT 'The Battery People'  
Provid Supply Corp  
PTL Cable Service  
Ram Broadcast Systems  
SAV  
Steenbeck Inc  
Sure Shot Teleproduction & Transmission  
Systems Wireless Ltd  
JA Taylor & Associates  
Tayo Industries  
Tektronix Inc



Telecast Fiber Systems



Tower Network Services  
Tron-Tek Inc  
VRI (Video Rentals Inc)  
Wescam Inc

## Frequency Measurement, Coordination

Communications Data Service Inc  
Doty-Moore Tower Services  
Johnson Measurement Service  
Marcom  
Phil McQuatters  
Microlect Co Inc  
Lawrence L Morton Associates  
National Supervisory Network  
Newman-Kees Freq Measurements  
Old Dominion Broadcast Eng Service  
PTL Cable Service  
SBE-Soc of Broadcast Engineers  
Standard Frequency Measuring Service  
Ziehli Electronic Service

## Head Refurbishing, Relapping

GEE Broadcast Systems Ltd  
Hall Electronics  
International Electro-Magnetics/EM  
JRF Magnetic Sciences Inc  
Northern Magnetics Inc  
Panasonic Broadcast & Television  
Sprague Magnetics Inc  
**Thomson Broadcast Systems**  
Videomagnetics Inc

## Instrument Calibration

R B Annis Co Inc  
APS Professional Video Products  
**ASACA/ShibaSoku Corp of America**  
BC Video Services  
**Hewlett-Packard Co**  
Loral Microwave-Narda  
Philips TV Test Equipment  
Rohde & Schwarz GmbH & Co Kg  
Sprague Magnetics Inc  
Wavetek Corp/Instrument Div

## Lens Repair

Alpine Optics Inc  
Century Precision Optics  
F Prime Optics

Fujinon Inc  
Alan Gordon Enterprises Inc  
OpTex  
SAV

## Media/Signal Transfers

Beachwood Studios  
Carpel Video  
Center Video Industrial Co Inc  
CoarcVideo  
Cycle-Sat Inc  
DGS/Digi-Grade Systems Ltd  
Elmo Mfg Corp  
HAVE Inc  
Hero Productions  
KABA Research & Development  
Optical Media International  
Options International  
Tayo Industries  
Video Dub Inc  
Video-Matic Group  
Waterfront Communications Corp

## Production Music, Effects Libraries, IDs

AirCraft Production Libraries

Beachwood Studios  
The Blue Ribbon Soundworks  
Broadcast Programming  
DeWolfe Music Library  
DigiMusic  
Dimension Music and Sound Effects  
Energetic Music Inc  
FirstCom Music  
Fresh/The Music Library  
Gefen Systems  
Holland Broadcast Services/Henry Eng  
**Henry Engineering**  
JT Communications  
Killer Tracks  
Manhattan Production Music  
Music Bakery  
Music Director Programming  
Network Music Inc  
OGM Production Music  
Omnimusic  
Production Garden Music Library  
Promusic Inc  
Radio Express  
Signature Music Library  
Sonic Science  
SoperSound Music Library  
Sound Ideas  
Tayo Industries  
TM Century  
TRF Production Music Libraries  
27th Dimension  
Valentino Inc  
WPA Film Library

## RF System Maintenance

Advent Communications Ltd  
**Antenna Concepts Inc**  
Arden Technologies Inc  
Astre Systems Inc  
Broadcast Communications  
CMBE  
CommSpec  
Communications & Power Industries  
Continental Microwave Ltd  
John J Davis & Associates  
Alan Dick & Co Ltd  
Dolp SRL  
Doty-Moore Tower Services  
Elcom Bauer  
ELIT-Elettronica Italiana Spa  
Frontier Communications Corp  
Gabriel Electronics Inc  
General Microwave Services Inc  
Harris Corp/Broadcast Div  
**Hewlett-Packard Co**  
Richard Hirschmann GmbH  
JFW Industries  
JT Communications  
Ron Krob Technical Consultant  
LeBlanc & Royle Telcom Inc  
LPB Inc  
Marconi  
Marconi Communications Inc  
Micro Communications Inc  
Lawrence L Morton Associates  
Newman-Kees Freq Measurements  
NTL  
Old Dominion Broadcast Eng Service

RCA Broadcast/GE Support Services  
RIZ-Transmitters Co  
Stainless Inc  
Southern Illinois Antennas  
Stainless Inc  
Standard Frequency Measuring Service  
SWR Inc  
Technet Systems Group  
Technosystem SPA  
Teletech Inc  
Tenco Tower Co  
Teracom Components AD  
**Thomcast**  
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Troll Technology Corp  
Trylon Towers  
T-Tech Corp  
Utility Tower Co  
Waterfront Communications Corp

## Satellite Program Distribution & Communication Services

American Mobile Satellite Corp  
Atlantic Satellite Communications  
COMSAT Mobile Communication  
COMSAT Video Distribution  
COMSAT World Systems  
Cycle-Sat Inc  
Direct Broadcast Services Inc  
GE American Communications  
Hero Productions  
**Hughes Communications Inc**  
IDB Communications & Broadcast  
Keystone Communications  
Mediatron GmbH  
MicroNet Inc  
Norsat International  
NSE Radio Network  
NTL  
Pagesat  
PanAmSat  
Synergistic Technologies Inc  
Talk America Radio Network  
Taurus Communications  
Video Dub Inc  
Waterfront Communications Corp

## Satellite Time Brokers

Atlantic Satellite Communications  
BAF Communications Corp  
COMSAT Mobile Communication  
COMSAT World Systems  
Cycle-Sat Inc  
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Hero Productions  
**Hughes Communications Inc**  
IDB Communications & Broadcast  
Keystone Communications  
Norsat International  
NPR Satellite Services  
NSE Radio Network  
Sure Shot Teleproduction & Transmission  
Synergistic Technologies Inc  
Taurus Communications

## Professional Organization

Broadcast Technology Society/IEEE  
European Broadcast Union/EBU  
Richard Hirschmann GmbH  
SBE-Soc of Broadcast Engineers  
SMPTÉ

## System Integrators

AF Associates Inc  
Alpha Video & Electronics Co  
Antenna Technology  
Audio Broadcast Group Inc  
Audio-Video Corp  
The Audio Visual Co  
AV Technology Ltd  
Avec Electronics Corp  
AVI Systems  
Broadcast Equipment & Parts  
CCA Electronics  
CDR Systems Inc  
Channelmatic Inc  
Clever Telecom S.A.  
Command Corp  
Communications Systems Group  
Consolidated Media Systems (CMS)  
Control Technology Inc  
Cruse Communications Co  
Digital Imaging Solutions

# Product Directory

DSI Video Systems Inc  
DYMA Engineering  
EDR Systems  
Electrex Co  
ESP-Extraordinarily Superior Products  
Fortek Systems Co Ltd  
Full Compass Systems Ltd  
GEE Broadcast Systems Ltd  
Gendra Broadcasting Corp  
Hoei Sangyo Co Ltd  
Kansas City Audio-Visual Inc  
Lines Video Systems  
Long Communications Group

Major Technologies Inc  
Mehalko Communications  
MSC Electronics Ltd  
Northeast Broadcast Lab Inc  
Perfectone Corp SA  
PRECO (Broadcast Systems) Ltd  
Professional Electronics Co Inc  
Professional Management Services  
Professional Products Inc  
Provid Supply Corp  
Radio Equipments Antares  
RADMAR Inc  
Ram Broadcast Systems



Reeves A/V Systems Inc  
RF Specialties of Texas  
Roscor Corp  
SCMS  
Sintel - Systems International  
Solidyne  
Sprague Magnetics Inc

SSL Industries Inc  
Studio Spectrum Inc  
Synelec  
The Systems Group  
Technet Systems Group  
Technical Industries Inc  
Techno House Inc  
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Broadcast Technology Society/IEEE  
**BTS Broadcast Television Systems**  
Communications & Power Industries  
Continental Electronics Corp  
Dataworld Inc  
ELIT-Elettronica Italiana SpA  
Flash Technology Corp of America  
Focal Press/Butterworth Heinemann  
Fotec Inc  
Full Sail Center for Recording Arts  
Harris Corp/Broadcast Div  
Richard Hirschmann GmbH  
Int'l Film & Television Workshops  
International Film Workshops  
International Thomson Publishing  
Lightguide Productions  
Mark Long Enterprises Inc  
Loral Microwave-Narda  
Panasonic Broadcast & Television  
SBE-Soc of Broadcast Engineers  
SMPTTE  
Soc of Cable Telecommunications  
SoftWright LLC  
SYPHA  
Technosystem SPA  
**Tentel Corp**  
**Thomcast**  
**Thomson Broadcast Systems**  
Video Engineering Ltd  
Wind River Broadcast Center

## Translation, Voice-Over Services

Optimum Productions

## Weather Data Services

Accu-Weather Inc  
Advanced Designs Corp  
Alden Electronics Inc  
Automated Weather Source  
Baron Services Inc  
Earth Watch Communications  
Imatex Communications Inc  
Kavouras Inc  
NSE Radio Network  
Texas Electronics Inc  
Weather Central Inc  
WeatherNewsAmerica  
WSI Corp

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- Components** - Camera tubes, power amplifier tubes, active solid-state devices
- Power Products**
- RF Products** - Transmitters, translators, antennas, transmission system components, satellite/microwave equipment
- System Integrator**
- Test Equipment** - Including audio video, RF data products
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## Alabama

**Intergraph Computer Systems**, Huntsville AL 35894; Tel: 205-730-5441, 800-763-0242, Fax: 205-730-9478; E-Mail: <http://www.intergraph.com>

## Arkansas

**Cellcast Communication Products Inc**, 2002 Ford Ave, Springdale AR 72764; Tel: 501-750-0277, 800-852-1333, Fax: 501-751-3761; E-Mail: [rwm@artran.com](mailto:rwm@artran.com)

## California

**Channelmatic Inc**, 821 Tavern Road, Alpine CA 91901; Tel: 619-445-2691, 800-766-7171, Fax: 619-445-3293; Products Handled: 5

**CMBE**, PO Box 5233, El Dorado Hills CA 95762; Tel: 916-933-9330, 800-801-2623, Fax: 916-933-3903; E-Mail: [76057.2622@compuserve.com](mailto:76057.2622@compuserve.com)

**Gefen Systems**, 6261 Variel Ave #C, Woodland Hills CA 91367; Tel: 818-884-6294, 800-545-6900, Fax: 818-884-3108

**Lakeside Associates Inc**, 26741 Portola Pkwy #1E, Foothill Ranch CA 92610-1713; Tel: 714-770-6601, Fax: 714-770-6575

**Marcum**, PO Box 66507, Scotts Valley CA 95066; Tel: 408-438-4273, Fax: 408-438-6617; Products Handled: 4, 7

**News/Sports Microwave Rental Inc**, 2732 Via Orange Way #A, Spring Valley CA 91978; Tel: 619-670-0572, Fax: 619-670-7040; E-Mail: [jakedan@aol.com](mailto:jakedan@aol.com)

**NewsMaker Systems Inc**, 28720 Roadside Dr #301, Agoura Hills CA 91301; Tel: 818-879-0000, Fax: 818-865-1421; E-Mail: [cis:74602.1111;mhs.olaf@nen](mailto:cis:74602.1111;mhs.olaf@nen)

**Odetics Broadcast**, 1515 S Manchester Ave, Anaheim CA 92802-2907; Tel: 714-774-2200, Fax: 714-780-7594

**Photon (PE Photon)**, 4030 Moorpark Ave #108, San Jose CA 95117; Tel: 408-261-3613, Fax: 408-261-3628; E-Mail: [pepman@netcom.com](mailto:pepman@netcom.com)

**SSL Industries Inc**, 4935 Anne Louise Lane, Placerville CA 95667; Tel: 916-644-0233; Products Handled: 1, 5, 6, 9

**Vizcom/Satellite Systems**, 304 San Miguel Ave, San Luis Obispo CA 93405; Tel: 805-544-7900

**Wave:Space Inc**, 26741 Portola Pkwy #1E, Foothill Ranch CA 92610-1743; Tel: 714-770-6601, Fax: 714-770-6575

## Colorado

**Wind River Broadcast Center**, 117 E 11th St, Loveland CO 80537; Tel: 970-669-3442, 800-669-3993, Fax: 970-663-6081

## Florida

**Audio Video Design Inc**, 2358 Gabriel Lane, W Palm Beach FL 33406; Tel: 407-966-3565, 800-749-7266, Fax: 407-966-4095

**BAF Communications Corp**, 314-16 Northstar Court, Sanford FL 32771; Tel: 407-324-8250, 800-633-8223, Fax: 407-324-7860; Products Handled: 8

**Broadcast Equipment & Parts**, 13524 Brixham St, Wellington FL 33414; Tel: 407-790-4192, Fax: 407-798-0348; Products Handled: 1, 4, 2, 5, 9

**FloriCal Systems Inc**, 1206 NW 8th Ave, Gainesville FL 32601; Tel: 904-372-8326, Fax: 904-375-0859

**Video Central**, 5422 Carrier Dr #207, Orlando FL 32819; Tel: 407-363-1913, 800-922-4745, Fax: 407-363-5509; Products Handled: 7, 9

## Georgia

**CCA Electronics**, 360 Bohannon Rd/PO Box 426, Fairburn (Atlanta) GA 30213; Tel: 770-964-3530, Fax: 770-964-2222; E-Mail: [hmgnsbrg@ix.netcom.com](mailto:hmgnsbrg@ix.netcom.com); [k4jpd@aol.com](mailto:k4jpd@aol.com); [dtbebe@aol.com](mailto:dtbebe@aol.com); Products Handled: 4, 2, 5

## Illinois

**D-Vision Systems Inc**, 8755 W Higgins Road Second Flr, Chicago IL 60631; Tel: 312-714-1400, 800-8-DVISION; Fax: 312-714-1405; E-Mail: [info@dvision.com](mailto:info@dvision.com)

**International Tapetronics Corp**, PO Box 241, Bloomington IL 61702-0241; Tel: 309-828-1381, 800-447-0414, Fax: 309-828-1386

**Roscor Corp**, 1061 Feehanville Drive, Mt Prospect IL 60056; Tel: 708-299-8080, 800-843-3679, Fax: 708-299-4206; Products Handled: 1, 4, 5, 6, 7, 8, 9

## Indiana

**Advanced Designs Corp**, 1169 W 2nd St, Bloomington IN 47403; Tel: 812-333-1922, Fax: 812-333-2030

## Kentucky

**Harris Corp/Broadcast Div Systems Operation**, 7920 Kentucky Drive, Florence KY 41042; Tel: 606-282-4800, Fax: 606-283-2818

## Massachusetts

**Barbizon Light**, 3 Draper St, Woburn MA 01801; Tel: 617-935-3920, Fax: 617-935-9273; Products Handled: 9

**WireReady Newswire Systems**, 82 Herbert St, Framingham MA 01701; Tel: 508-879-0080, 800-833-4459, Fax: 508-879-1199; E-Mail: [wireready@wireready.com](mailto:wireready@wireready.com); [davidg@wireready.com](mailto:davidg@wireready.com)

## Maryland

**Computer Prompting & Captioning Co**, 1010 Rockville Pike, Rockville MD 20852; Tel: 301-738-8487, 800-977-6678, Fax: 301-738-8488

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## Michigan

**Audio Broadcast Group Inc**, 2342 S Division Ave, Grand Rapids MI 49507; Tel: 616-452-1596, 800-999-9281, Fax: 616-452-1652; E-Mail: [compuserve:75371.144](mailto:compuserve:75371.144); internet: [support@abg.com](mailto:support@abg.com); web site: [www.abg.com](http://www.abg.com); Products Handled: 1, 4, 5

## Missouri

**Midland International**, 1690 N Topping Ave, Kansas City MO 64120; Tel: 816-241-8500, 800-669-4567, Fax: 816-420-1144

**Vision Quest**, 1925 E Bennett #J, Springfield MO 65804; Tel: 417-886-0655, 800-284-4140, Fax: 417-886-6535; Products Handled: 5, 9

## North Carolina

**Long Communications Group**, 961 Burke St, Winston-Salem NC 27101; Tel: 910-725-2306, 800-255-5664, Fax: 910-777-8304; Products Handled: 1, 4, 2, 5, 8, 9

## New Jersey

**AF Associates Inc**, 100 Stonehurst Court, Northvale NJ 07647; Tel: 201-767-1200, Fax: 201-784-8637; Products Handled: 5

**DSI Video Systems Inc**, 627 Boulevard, Kenilworth NJ 07033; Tel: 908-245-4833, Fax: 908-245-0011; Products Handled: 5

**East Coast Video Systems**, 52 Ralph St, Belleville NJ 07109; Tel: 201-751-5655, Fax: 201-751-8731

**Nesbit Systems Inc**, 5 Vaughn Dr, Princeton NJ 08540; Tel: 609-799-5071, 800-846-3362, Fax: 609-799-9540

**Netcom**, 1465 Palisade Ave, Teaneck NJ 07666-3698; Tel: 201-837-8424, Fax: 201-837-8384

**The Systems Group**, 66 Willow Ave, Hoboken NJ 07030; Tel: 201-795-4672, Fax: 201-798-3033; Products Handled: 5

## New Mexico

**DYMA Engineering**, PO Box 1535, Los Lunas NM 87031; Tel: 505-865-6700, 800-222-3962, Fax: 505-865-6776; Products Handled: 1, 4, 5, 9

## New York

**APS Professional Video Products**, 67-16 Myrtle Ave, Glendale NY 11385; Tel: 718-628-6800, 800-628-6801, Fax: 718-628-7441

**B&H Photo**, 119 W 17 St, New York NY 10011; 212-444-5028; 800-947-9928; Fax: 212-444-5001; E-Mail: [76623.570@compuserve.com](mailto:76623.570@compuserve.com)

**Digital Imaging Solutions**, 900 Broadway, New York NY 10003; Tel: 212-388-9200, Fax: 212-388-9388; E-Mail: [cubist1@aol.com](mailto:cubist1@aol.com); Products Handled: 1, 5, 9

**LNR Communications Inc**, 180 Marcus Blvd, Hauppauge NY 11788-3795; Tel: 516-273-7111, Fax: 516-273-7119; E-Mail: [bebg@lnr.com](mailto:bebg@lnr.com)

**Media Touch Systems Inc**, 50 Northwestern Drive #11, Salem NY 03079; Tel: 603-893-5104, Fax: 603-893-6390



**Reeves AV Systems Inc**, 227 E 45 St, New York NY 10017; 212-573-8652, Fax: 212-986-3591; Products Handled: 1, 6, 9

**Sharb Electronics HPG Industries**, 192-08 90th Ave, Hollis NY 11423; Tel: 718-479-8011, Fax: 718-479-3072

**Videoound of Ithaca Inc**, 1458 Slaterville Rd, Ithaca NY 14850; Tel: 607-272-2060, Fax: 607-277-7374; Products Handled: 1, 4, 5, 6, 7, 9

**Wheatstone Corp**, 7305 Performance Drive, Syracuse NY 13212; Tel: 315-452-5000, Fax: 315-452-0160; E-Mail: [wheatstone@aol.com](mailto:wheatstone@aol.com)

**ZZZap Power**, PO Box 532, Champlain NY 12919; Tel: 514-369-4919, 800-682-2677, Fax: 514-369-4817; Products Handled: 3

## Ohio

**Vincent Lighting Systems Co**, 20810 Miles Parkway, Cleveland OH 44128; Tel: 216-475-7600, 800-922-5356, Fax: 216-475-6376; E-Mail: [info@vis.com](mailto:info@vis.com); Products Handled: 5, 9

## Pennsylvania

**Alpha Video & Electronics Co**, 200 Keystone Dr, Carnegie PA 15106; Tel: 412-429-2000, Fax: 412-429-2015; Products Handled: 1, 4, 5, 6, 8, 9

**CDR Systems Inc**, 7432 Washington St, Pittsburgh PA 15218; Tel: 412-351-1700, Fax: 412-351-4673; Products Handled: 1, 3, 5, 6, 7, 9

**LPB Inc**, 28 Bacton Hill Road, Frazer PA 19355; Tel: 610-644-1123, Fax: 610-644-8651; E-Mail: [lpbinc@aol.com](mailto:lpbinc@aol.com)

**Phasetek Inc**, 550 California Rd #11, Quakertown PA 18951; Tel: 215-536-6648, Fax: 215-536-7180

**Synergistic Technologies Inc**, 121 Hillpointe Dr #700, Canonsburg PA 15317; Tel: 412-873-0800, 800-659-7715, Fax: 412-873-4770

## South Carolina

**Professional Management Services, PC** Box 141 (221 E Earle St), Greenville SC 29602-0141; Tel: 864-370-2400, Fax: 864-370-2314; E-Mail: [76360.1041@compuserve.com](mailto:76360.1041@compuserve.com); Products Handled: 1, 5

## Tennessee

**Rathbone Energy Systems Inc**, 136 Old Huff Hollow Road, Newport TN 37821; Tel: 770-975-8052, 800-223-1775, Fax: 770-975-8915; E-Mail: [CIS@74347.2677](mailto:CIS@74347.2677); [RRathbone@ix.netcom.com](mailto:RRathbone@ix.netcom.com); Products Handled: 1, 6, 9

## Texas

**Beck Associates Inc**, 2403 Howard Lane, Austin TX 78728; Tel: 512-388-9777, 800-728-3725, Fax: 512-388-1833

## Virginia

**Avec Electronics Corp**, 711 Grandy St, Norfolk VA 23510; Tel: 804-627-3502, 800-798-AVEC, Fax: 804-627-1710; Products Handled: 1, 4, 5, 7, 9

# Product Directory

**SAIC**, 4200 - M Lafayette Center Dr, Chantilly VA 22021; Tel: 703-802-7320, Fax: 703-802-7324; Products Handled: 9

**Vitron Systems**, 695 Central Dr #109, Virginia Beach VA 23454; Tel: 804-431-9362, Fax: 804-431-8489

## Washington

**Geneva Aviation/ASTAR Specialists**, 2817 100th St SW, Everett WA 98204; Tel: 206-353-7400, Fax: 206-347-7100

## Wisconsin

**Full Compass Systems Ltd**, 8001 Terrace Ave, Middleton WI 53562; Tel: 608-831-7330, 800-356-5844, Fax: 608-831-6330; Products Handled: 1, 5, 6, 7, 9

**Intelix Corp**, 8001 Terrace Ave, Middleton WI 53562; Tel: 608-831-0880, Fax: 608-831-1833; E-Mail: intelix@fcs.msn.fullfeed.com

## Argentina

**Solidyne**, 3 de Febrero 3254, 1429 Buenos Aires Argentina; Tel: +54(1) 701-8622, Fax: +54(1) 702-2375; Products Handled: 1, 4, 5, 6

## Canada

**Imatex Communications Inc**, 1425 Rene Levesque #303, Montreal QC H3G 1T7; Tel: 514-875-8680, Fax: 514-875-8710; E-Mail: info@imatex.com; ajannelle@imatex.com

**LeBlanc & Royle Telcom Inc**, 514 Chartwell Road, Box 880, L6J 5C5 Oakville ON Canada; Tel: 905-844-1242, Fax: 905-844-1837

**Planon Telexpertise Inc**, 1370 Joliot-Curie #708, J4B 7L9 Boucherville Que Canada; Tel: 514-449-6481, Fax: 514-449-6484

## England

**Audix Broadcast Ltd**, Station Rd Wenden Saffron Walden, CB11 4LG Essex England; Tel: +44(0) 1799-542220, Fax: +44(0) 1799-541248

**Continental Microwave Ltd**, 1 Crawley Green Road, LU2 7HU Luton, Beds England; Tel: +44-1582-424233, Fax: +44-1582-455273

**GEE Broadcast Systems Ltd**, #9 Grafton Way, RG22 6HY Basingstoke, Hants England; Tel: +44 1256 810123, Fax: +44 1256 810061; Products Handled: 5, 6, 9

**Kinetic Systems Ltd**, Kinetic Centre/Theobald St, WD6 4PJ Borehamwood Herts England; Tel: +44(0) 181 386-1001, Fax: +44(0) 181 953-1118; Products Handled: 1

**PRECO (Broadcast Systems) Ltd**, 3 Four Seasons Crescent, Kimpton Road, SM3 9QR Sutton, Surrey England; Tel: +44-181-644-4447, Fax: +44-181-644-0474; Products Handled: 1, 4, 5, 6

## France

**AAVS/Advanced Audio Visual Systems**, 222-226 rue de Rosny, F-93100 Montreuil France; Tel: +33(1) 4988-3434, Fax: +33(1) 4857-3358

**DALET**, 251, rue du Faubourg Saint Martin, F-75010 Paris France; Tel: +33-1-40-38-01-39, Fax: +33-1-42-05-18-66; E-Mail: compuserve:100336,1140

**Netia Digital Audio**, Halle Industrielle de Farjou, F-34270 Claret France; Tel: +33 67 59 0807, Fax: +33 67 59 0820

**RAMI**, Rocade de la Croix St Georges 14, F-77600 Bussy St Georges France; Tel: +33-1-6466-2020, Fax: +33-1-6466-2030

## Germany

**BFE Fernmelde Technik & Elektronik AG**, Am der Fahrt 1, D-55124 Mainz-Gonsenheim Germany; Tel: 49 (6737) 946-0, Fax: +49 (6737) 946-709

**BTS Broadcast Television Systems**, Lenschnerpark 1, D-64347 Griesheim Germany; Tel: +49 (6155) 870-0, Fax: +49 (6155) 870359; E-Mail: reichardt; compuserve 100443,566; Products Handled: 1, 8, 9

**CCS Europe GmbH**, Ludwigstrasse 45, D-85399 Hailbergmoos Germany; Tel: +49-811-5516-0, Fax: +49-811-5516-55; E-Mail: ccs-europe@proaudio.de

**Fraunhofer-Institut für Integrierte Schaltungen (IIS)**, Am Weichselgarten 3, D-91058 Erlangen Germany; Tel: +49-9131-776340, Fax: +49-9131-776399; E-Mail: Layer3@iis.fhg.de

**ict GmbH**, Erscheckweg 1, D-72654 Kohlberg Germany; Tel: +49-7025-1020, Fax: +49-7025-7111

**Lawo Gerätebau GmbH**, Am Oberwald 8, D-76437 Rastatt Germany; Tel: +49-7222-1002-0, Fax: +49-7222-1002-24

## Italy

**Dolp SRL**, Via B Pontecorvo Z 1, 00012 Guidonia Montecelio Italy; Tel: +39-774-357400, Fax: +39-774-375445

**ITELCO SpA**, Via Dei Merciarri Zona Ind. Sferracavallo, I-05019 Orvieto (TR) Italy; Tel: +39-763-316231, Fax: +39-763-316236

**Technosystem SPA**, Via P. Fumaroli 14, I-00155 Rome Italy; Tel: +39-6-2280396, Fax: +39-6-2282355

## Sweden

**Teracom Components AD**, S-24291 Horby Sweden; Tel: +46-415-16400, Fax: +46-415-16401; E-Mail: components@teracom.se; Products Handled: 4

## Switzerland

**Audio Bauer Pro AG**, Bernerstrasse-Nord 182, CH-8064 Zurich Switzerland; Tel: +01-432-32-30, Fax: 011-41 1 432-65-58; Products Handled: 1, 8

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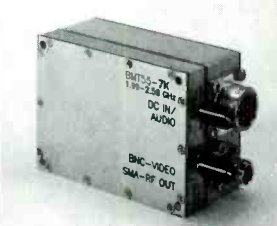
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## Advanced Television Systems Committee (ATSC)

1750 K St NW #800  
Washington DC 20006  
202-828-3130; Fax: 202-828-3131

## Alpha Epsilon Rho, National Broadcasting Society

College of Journalism  
Univ of S Carolina  
Columbia SC 29208  
803-777-6783; Fax: 803-777-9578

## American Radio Relay League (ARRL)

225 Main St  
Newington CT 06111  
203-666-1541; Fax: 203-665-7531

## American Society of Composers Authors & Publishers (ASCAP)

One Lincoln Plaza  
New York NY 10023  
212-621-6000; Fax: 212-721-0955

## American Society of TV Cameramen (ASTVC)

Washington St Box 296  
Sparkill NY 10976  
914-359-5569

## American Women in Radio/TV

1101 Connecticut Ave NW #700  
Washington DC 20036  
202-429-5102

## Armed Forces Communications & Electronics Association

4400 Fair Lakes Court  
Fairfax VA 22033  
703-631-6100; Fax: 800-336-4583

## Asia Pacific Broadcasting Union (ABU)

Box 1164 Pejabat Pos Jalan Pantai Bahru  
Kuala Lumpur Malaysia 59700  
+60(3)-282-3592  
Fax: +60(3)-282-5292

## Associated Press/Broadcast News Center

1825 K St NW # 710  
Washington DC 20006-1253  
202-736-1100; 800-821-4747  
Fax: 202-736-1107

## Association for Educational Communication & Technology (AECT)

1025 Vermont Ave NW #820  
Washington DC 20005  
202-347-7934; Fax: 202-347-7839

## Association of Federal Communications Consulting Engineers (AFCCE)

Box 19333 - 20th St Station  
Washington DC 20036-0333

## Audio Engineering Society (AES)

60 E 42 St  
New York NY 10165-6437  
212-661-8528; Fax: 212-682-0477  
CompuServe: AES 73277,1205

## British Broadcasting Corp (BBC)

Kingswood Warren Rm A206  
Tadworth Surrey  
England KT20 6NP  
+44 (0) 1737-832361 Ext 236  
Fax: +44 (0) 1737-832336

## Broadcast Music (BMI)

320 W 57 St  
New York NY 10019  
212-586-2000

## Canadian Association of Broadcasters (CAB)

350 Sparks St # 306  
Box 627 Station B  
Ottawa ON Canada K1P 5S2  
613-233-4035; Fax: 613-233-6961

## Canadian Broadcasting Corp (CBC)

[Advanced Broadcasting Systems of Canada]  
1500 Bronson Ave - 5th Floor  
Ottawa ON Canada K1G 3J5  
613-738-6581; Fax: 613-738-6593

## Canadian Cable TV Association

360 Albert St #1010  
Ottawa ON Canada K1R 7X7  
613-232-2631; Fax: 613-232-2137

## Canadian Radio-Television & Telecommunications Commission

Ottawa ON Canada K1A 0N2  
819-997-0313 (General Info.)  
Fax: 819-994-0218

## CBS Inc

51 W 52 St  
New York NY 10019  
212-875-2341

## Central Educational Network (CEN)

1400 E Touhy #260  
Des Plaines IL 60018-3305  
708-390-8700

## Corporation for Public Broadcasting (CPB)

901 E St NW  
Washington DC 20004-2037  
202-879-9600; Fax: 202-783-1019

## Country Music Association

One Music Circle S  
Nashville TN 37203  
615-244-2840; Fax: 615-726-0314

## Eastern Educational TV Network (EEN)

120 Boylston St  
Boston MA 02116-4611  
617-338-4455; Fax: 617-338-5369

## Electronic Industries Association (EIA)

2001 Pennsylvania St NW  
Washington DC 20006-1813  
202-457-4900; Fax: 202-457-4985

## European Broadcast Union (EBU)

Ancienne Route 17A (CP #67)  
CH-1 218 Grand Saconnex  
Geneva Switzerland  
+41-71-7-2111; Fax: +41-79-8-5897

## Federal Communications Commission (FCC)

Office of Engineering/Technology  
2025 M St NW  
Washington DC 20554  
202-632-7060; Fax: 202-632-0199

## FOX

10201 W Pico Blvd  
Los Angeles CA 90035  
310-277-2211

## IEEE/Institute of Electrical & Electronic Engineers

Voice of America  
3300 Independence Ave SW  
Washington DC 20547  
202-619-3771  
Fax: 202-619-3484 (Sys Eng)

## IEEE/Broadcast Technology Society

c/o Voice of America  
Route 1 Box 190  
Greenville NC 27834  
919-752-7189; Fax: 919-752-5959

## International Association of Broadcasting Manufacturers

Triumph House  
1096 Uxbridge Road  
Hayes Middlesex  
England UB4 8QH  
+44 (0) 1573-8333  
Fax: +44 (0) 1848-8805

## International Multimedia Association (IMA)

48 Maryland Ave #202  
Annapolis MD 21401-8011  
410-626-1380; Fax: 410-263-0590

## International Telecommunications Union (ITU)

Place des Nations  
CH-1211 Geneva 20 Switzerland  
+41 (22) 730-1511  
Fax: +41 (22) 733-7256

## International Teleconferencing Association (ITCA)

1650 Tysons Blvd #200  
McLean VA 22102  
703-506-3280; Fax: 703-506-3266

## International Television Association (ITVA)

6311 N O'Connor Road #230  
Irving TX 75039  
214-869-1112; Fax: 214-869-2980  
ITVA Chapter Offices:  
Atlanta 404-438-4789  
Austin 512-356-3088  
Birmingham 205-290-8313  
Boston 617-923-4882

Central Kentucky	502-491-8896
Charlotte	704-329-9474
Chapel Hill/Durham	919-990-1999
Chicago	708-848-6590
Cincinnati	513-684-4865
Cleveland	216-586-9600
Dallas/Fort Worth	214-807-4648
Denver	303-692-4284
Detroit	810-549-7538
Florida Panhandle	904-432-9210
Houston	713-965-9689
Indianapolis	317-425-9999
Jacksonville	904-350-0135
Kansas City	913-432-4882
Los Angeles	310-841-4882
Madison	608-836-4882
Maryland	301-924-4327
Miami	305-756-0511
Mid-Michigan	616-664-6586
Milwaukee	414-423-8776
New York	212-388-7307
New Jersey	201-802-4868
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Palm Beach	407-391-7115
Philadelphia	215-789-9337
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Pittsburgh	412-231-4882
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## MII Users Association

1950 Roland Clark Place #100  
Reston VA 22091  
703-620-6000; Fax: 703-620-0451

## National Academy of Television Arts & Sciences

111 W 57 St #1020  
New York NY 10019  
212-586-8424; Fax: 212-246-8129

## National Association for Better Broadcasting

7918 Naylor Ave  
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213-641-4903

## National Association of Broadcasters (NAB)

1771 N St NW  
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202-429-5350; Fax: 202-429-5343

## National Association of Farm Broadcasters

26 Eschance St E #307  
St Paul MN 55101  
612-224-0508

## National Association of State Radio Networks

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Baton Rouge LA 70801  
504-383-8695

**NBC**  
GE Building  
30 Rockefeller Plaza  
New York NY 10112  
212-664-4444

**National Cable Television Association (NCTA)**  
1724 Massachusetts Ave NW  
Washington DC 20036  
202-775-3550; Fax: 202-775-3696  
(Assoc Affairs)

**National Cable Television Institute (NCTI)**  
801 W Mineral  
Littleton CO 80120  
303-797-9393; Fax: 303-797-9394

**National Captioning Institute (NCI)**  
5203 Leesburg Pike 15th Floor  
Falls Church VA 22041  
703-998-2400

**National Press Club**  
519 14th St NW  
Washington DC 20045  
202-662-7500; Fax: 202-879-6725

**National Public Radio**  
2025 M St NW  
Washington DC 20036  
202-822-2000

**National Translator Association**  
Box 628  
Riverton WY 82501  
307-845-3322

**Overseas Writers**  
National Press Bldg  
529 140th St NW #2071  
Washington DC 20045  
301-229-2387

**Pacific Mountain Network**  
1550 Park Ave  
Denver CO 80218  
303-837-8000; Fax: 303-837-9797

**Professional Film & Video Equipment Association**  
Box 9436  
Silver Spring MD 20906-0436  
301-460-8084

**Public Broadcasting Service (PBS)**  
1320 Braddock Place  
Alexandria VA 22314-1698  
703-739-5000; Fax: 703-739-0775

**Radio Advisory Board of Canada**  
880 Lady Ellen Place  
Ottawa ON Canada K1Z 5L9  
613-728-8692

**Radio Free Europe/Radio Liberty**  
1201 Connecticut Ave NW  
Washington DC 20036  
202-457-6900

**Radio & Television Correspondents Association**  
Senate Radio-Television Gallery-  
US Capitol  
Washington DC 20510  
202-224-6421

**Radio Television News Directors Association (RTNDA)**  
1000 Connecticut Ave NW #615  
Washington DC 20036  
202-659-6510  
Fax: 202-223-4007

**Radio & Television Research Council**  
Headquarters Group Inc  
245 5th Ave # 2103  
New York NY 10016

**Royal Television Society**  
Holborn Hall  
100 Gray's Inn Road  
London England WC 1 X 8AL  
+44 (171) 430-1000  
Fax: +44 (171) 430-0924

**Royal Television Society North American Chapter**  
Arizona State University  
Box 871405  
Tempe AZ 85287  
602-965-7661; Fax: 602-965-1000

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CO-Grand Junction #81	303-241-9230
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PA-Pittsburgh #20	412-788-8989
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Mexico City (CP06724)  
Mexico 6 DF  
+52(5) 708-3936  
Fax: +52(5) 7094815

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890 Yonge St # 700  
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416-923-8813

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Telex 204461  
NY United Nations (212-754-5114)

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Month	Cover Story	Additional Features
<b>January</b> SMPTE Winter Conf.  Production Interactive Transition to digital Transmission	Broadcasting from the field  Editing on the fly Using the Internet Planning the digital facility, Part 1 Planning your ATV system	Power conditioning systems Broadcast 2000 Transporting audio
<b>February</b>  Production Interactive Transition to digital Transmission	Video server architecture  Audio: The Impedance dilemma Web browsers Planning the digital facility, Part 2 Building multi-station towers	Making the financial case for ATV Video compression techniques Building for widescreen
<b>March</b> NAB  Production Interactive Transition to digital Transmission	NAB Preview  Communicating in the field Finding technical resources on the Net Compressing the bit stream Predicting ATV coverage	Facility design showcase Broadcast 2000
<b>April</b> NCTA AES Europe  Production Interactive Transition to digital Transmission	Networking your facility  Production on a shoestring Finding manufacturer home pages Transporting digital video A UHF primer for VHF engineers: transmitters	Digital commercial insertion New camera technology Interfacing digital audio
<b>Product Source Tabloid</b> NCTA, SCTE, AES-Europe, ITS	Second annual issue from Broadcast Engineering. This colorful, tabloid-size publication will showcase the industry's hottest new products, with full-color photos and detailed descriptions.	
<b>May</b> SCTE  Production Interactive Transition to digital Transmission	Editing systems  Field accessories Computer security Switching digital video A UHF primer for VHF engineers: antennas and line	Routing technology Broadcast 2000 Audio compression
<b>June</b> ITS  Production Interactive Transition to digital Transmission	NAB Review  Audio for post Plug & play: no way! Where does analog make sense? MMDS applications	TV Pick Hits

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## KY-27C

### 3-CCD Color Video Camera

- New 1/4" broadcast-quality 380,000 pixel CCDs with advanced electronics deliver resolution of 800 horizontal lines and reduced smear.
- High sensitivity of F9.0 at 2000 lux allows a truly usable minimum illumination of 1 lux with JVC's exclusive 1.0 lux dual pixel readout sampling technique.
- LoLux mode allows shooting scenes that were previously impossible due to insufficient lighting. CCDs are maximized for low light sensitivity equivalent to an electronic gain of 24dB, then the dual pixel readout system is added which provides an additional 6dB. Together they provide +30dB without the noise and picture degradation normally associated with this much gain.
- Signal-to-Noise ratio of 63dB assures virtually "noise free" images.
- Auto Shooting Mode where you only have to zoom, focus and record. All other parameters are controlled automatically.
- Enhanced ALC (Automatic Level Control) mode for continuous shooting in all light levels. This allows continuous automatic shooting from dark interiors to bright outdoors. Also features an aperture priority mode, manually set the iris for desired depth of focus and the ALC circuit automatically achieves correct video level.
- The Multi-Zone Iris Weighting system gives preference to objects in the center and lower portions of the picture. The Automatic Peak/Average Detection (APB) provides intelligence to ignore unusual objects such as bright lights.
- Auto knee circuitry detects a scene's light to dark dynamic range reproduction by up to five times without overexposure.
- Has large 1.5-inch viewfinder with 600 lines of resolution and SMPTE color bars. Status system provides audio levels, accumulated or remaining recording time, VTR operation, battery voltage and camera setup. Zebra pattern indication and safety zones with a center marker are also provided.
- Equipped with Variable Scan function. This allows flicker-free shooting of computer screens. Variable scan enables a precise shutter speed from 1/60.2 to 1/196.7 of a second in 256 increments to be set, matching a computer's scan rate. Almost any computer display can be clearly recorded.
- Star filter creates dramatic 4-point star effects. Users can also select from a wide range of optional filters.
- Advanced Memory System (AMS) stores customizable settings for various shooting conditions.
- Camera head allows direct input of genlock signal and timing adjustment. A wide range optional remote controls, RS-232 interface, multicore and triax CCU's are available.
- Cables directly to the JVC BR-S422U, BR-S411UB and BR-S420CU professional S-VHS recorders. Optional adapters for docking to Hi-8 and Betacam SP are also available.



## Vinten

THE  
ADVANCED  
RANGE OF  
VISION  
LIGHTWEIGHT  
HEADS AND  
TRIPODS



### Vision SD 12 and SD 22 Pan and Tilt Heads with Serial Drag

The Vision SD 12 and SD 22 are the first heads with the "Serial Drag" pan and tilt system. The system consists of a unique, permanently-sealed fluid drag and an advanced lubricated friction drag. So for the first time, one head gives you all the advantages of both fluid (viscous) and lubricated (LF) drag systems—and none of their disadvantages. Achieve the smoothest pans and tilts regardless of speed, drag setting and ambient temperature. The Serial Drag system provides the widest range of infinitely variable precise settings with repeatable, consistent drag in each pan and tilt direction.

- Features:**
- Simple, easy-to-use external control for perfect balance.
  - Patented spring-assisted counter-balance system permits perfect "hands-off" camera balance over full 180° of tilt.
  - Instant drag system breakaway and recovery overcome inertia and friction for excellent "whip pans".
  - Consistent drag levels in both pan and tilt axis.
  - Redesigned flick off, flick off pan and tilt caliper disc brakes.
  - Greater control, precision, flexibility and "touch" than any other head on the market.
  - Touch activated, time delayed illuminated level bubble.
  - Environmental working conditions from as low as -40° to as high as +60°C.
  - SD 12 weighs 6.6 lbs and supports up to 35 lbs.
  - SD 22 weighs 12.7 lbs and supports up to 55 lbs.

### Vision Two Stage ENG and LT Carbon Fibre ENG Tripods

The ultimate in lightweight and innovative tripods, they are available with durable tubular alloy (Model #3513) or the stronger and lighter, axially and spirally wound carbon fibre construction (Model #3523). They each incorporate the new torque safe clamps to provide fast, safe and self-adjusting leg clamps that never let you down. Two stage operation gives them more flexibility when it is used as well as greater operating range.

- "Torque Safe" requires no adjustment. Its unique design adjusts itself as and when required, eliminating the need for manual adjustment and maintenance and making for a much more reliable clamping system.
- New hip joint eliminates play and adds rigidity.
- They both feature 100mm levelling bowl, fold down to a compact 28", and support 45 lbs.
- The #3513 weighs 6.5 lbs and the #3523 CF (Carbon Fibre) weighs 5.2 lbs.

All Vision 12 systems include #33643 SD 12 dual fluid and lubricated friction drag pan/tilt head, single telescoping pan bar and clamp with 100mm ball base.

#### SD-12A System

- 3364-3 SD-12 Pan and tilt head
- 3518-3 Second stage ENG tripod with 100mm bowl
- 3363-3 Lightweight calibrated floor spreader

#### SD-12D System

- 3364-3 SD-12 Pan and tilt head
- 3513-3 "two-stage" ENG tripod with 100mm bowl
- 3314-3 Heavy-duty calibrated floor spreader

#### SD-12LT System

- 3364-3 SD-12 Pan and tilt head
- 3523-3 Two-stage carbon fibre ENG tripod w/100mm bowl
- 3363-3 Lightweight calibrated floor spreader
- 3425-3A Carry strap
- 3340-3 Soft case

### Vision 22 Systems

All Vision 22 systems include #3386-3 SD-22 dual fluid and lubricated friction drag pan and tilt head, single telescoping pan bar and clamp with dual 100mm/150mm ball base.

#### SD-22E System

- 3386-3 SD-22 Pan and tilt head
- 3219-52 Second telescoping pan bar and clamp
- 3516-3 "two-stage" EFP tripod with 150mm bowl
- 3314-3 Heavy-duty calibrated floor spreader

#### SD-22 LT System

- 3386-3 SD-22 Pan and tilt head
- 3219-52 Second telescoping pan bar and clamp
- 3314-3 Heavy-duty calibrated floor spreader
- 3425-3A Carrying strap
- 3341-3 Soft case

#### SD-22 ELT System

- 3386-3 SD-22 Pan and tilt head
- 3219-52 Second telescoping pan bar and clamp
- 3383-3 Two-stage carbon fibre EFP tripod w/150mm bowl
- 3314-3 Heavy-duty calibrated floor spreader

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## antonbauer

### Logic Series DIGITAL Gold Mount Batteries

The Logic Series DIGITAL batteries are acknowledged to be the most advanced in the rechargeable battery industry. In addition to the comprehensive sensors integral to all Logic Series batteries, each DIGITAL battery has a built-in microprocessor that communicates directly with Anton/Bauer Interactive chargers, creating significant new benchmarks for reliability, performance, and life. They also complete the communications network between battery, charger and camera. With the network in place, DIGITAL batteries deliver the feature most requested by cameramen: a reliable and accurate indication of remaining battery power.



#### DIGITAL PRO PACS

The Digital Pro Pac is the ultimate professional video battery and is recommended for all applications. The premium heavy duty Digital Pro Pac cell is designed to deliver long life and high performance even under high current loads and adverse conditions. The size and weight of the Digital Pro Pac creates perfect shoulder balance with all cameras/camcorders.

- **DIGITAL PRO PAC 14 LOGIC SERIES NICAD BATTERY**  
14.4v 60 Watt Hours 5 1/8 lbs. Run time: 2 hours @ 27 watts, 3 hrs @ 18 watts
- **DIGITAL PRO PAC 13 LOGIC SERIES NICAD BATTERY**  
13.2v 55 Watt Hours 4 3/4 lbs. Run time: 2 hours @ 25 watts, 3 hours @ 17 watts

#### GOLD MOUNT BATTERIES

Logic Series Gold Mount batteries are identical to the respective DIGITAL versions with respect to size, weight, capacity, IMPAC case construction, and application. They are similarly equipped with micro-code logic circuits and comprehensive ACS sensors. They do not include DIGITAL microprocessor features such as the integral diagnostic program "Fuel Computer", LCD/LED display and Interactive viewfinder fuel gauge circuit.

- **PRO PAC 14 NICAD BATTERY** (14.4v 60 Watt Hours)
- **PRO PAC 13 NICAD BATTERY** (13.2v 55 Watt Hours)
- **MAGNUM 14 NICAD BATTERY** (14.4v 72 Watt Hours)
- **MAGNUM 13 NICAD BATTERY** (13.2v 66 Watt Hours)
- **COMPAC MAGNUM 14 NICAD BATTERY** (14.4v 43 WH)
- **COMPAC MAGNUM 13 NICAD BATTERY** (13.2v 40 WH)

## Century precision optics

### WIDE ANGLE ADAPTERS Tools For Creative Videographers

Century Precision's wide angle adapters open new possibilities for videographers. By providing a wider angle of view they let you capture more of the action from close up—especially crucial when shooting in tight quarters. Using a wide angle adapter also yields increased depth of field and shorter MOD (minimum object distance), enabling you to move closer to the subject and to arrange subjects within a shot over a greater range of distance relative to the lens. Century's wide angle adapters are divided into two classes: fixed focal length adapters and zoom-through converters. The Wide Angle Adapter Set, 6X Double Asphere and Super Fisheye are designed for use with a zoom lens set at its widest focal length. With one of these adapters a zoom lens performs as a wide or super wide angle fixed focal length lens. (Focus is done by using the lens' macro function.) For zoom-through applications, the 8X Wide Converter is perfect for shooting situations which require wide angle and the ability to zoom.

#### WA-7X5X WIDE ANGLE ADAPTER SET

- Compact, lightweight and economical the Wide Angle Adapter Set is the industry standard. The set consists of two lenses: the 7X Wide Angle and 5X Super Wide Angle. The 7X attaches to the front of a zoom lens, increasing coverage by 30%.
  - For example, when attached to a lens that zooms to 9mm, the 7X W/A adapter shortens the effective focal length to 6.3mm. Adding the 5X Super Wide further alters the wide end of the lens to just 4.5mm. Thus producing coverage nearly double that captured by the lens alone.
- |         |                             |        |         |   |            |
|---------|-----------------------------|--------|---------|---|------------|
| WA-7X93 | 7x Wide Angle Adapter       | 445.00 | WA-7X5X | Wide Angle Adapter Set (WA-7X93 and WA-5X45)  | 895.00     |
| WA-5X45 | 5x Super Wide Angle Adapter | 535.00 | FA-6X   | Step-up Ring (specify 75mm, 80mm, 85mm, 90mm) | ea. 104.95 |



#### SUPER FISHEYE ADAPTER

- When you need the widest possible angle of view, the Super Fisheye Adapter produces an extraordinary degree of barrel distortion for a magnification factor of approximately .55x. For example, adding the Super Fisheye to a modern 15x 8 lens results in a 116° horizontal angle of view—a remarkable 145° when measured vertically.
  - Due to the Super Fisheye's characteristic barrel distortion, extreme low and high angle shots are also made more dramatic. An attic crisscape can induce heightened claustrophobia or a forest of tall skyscrapers made to bend menacingly over the audience. And since the Super Fisheye takes in a much wider angle of view than the human eye, it can also be used to plunge the audience into a scene—surrounding them with a noisy crowd or exiting them to a lonely beach.
  - The Super Fisheye's tremendously wide field of view suggests a myriad of creative possibilities—from panoramic vistas that seem to stretch to the edge of the earth, to comical forced perspective close-ups, in which an actor's distorted features seem to pop through the video screen. While extreme telephoto shots tend to flatten the subjects against the background, the Super Fisheye exaggerates depth, pulling nearby objects closer and causing distant objects to recede into the background.
  - In addition to the Super Fisheye (designed for the newest generation of internal focus zooms) Century Precision also offers the Fisheye Adapter for industrial video zoom lenses with 75mm lens fronts.
- |         |   |            |
|---------|---|------------|
| WA-FE75 | Super Fisheye Adapter (specify lens front diameter)         | 1049.95    |
| WA-FE5U | Fisheye Adapter for industrial zoom lenses with 75mm fronts | 445.00     |
| FA-6X   | Step-up Ring (specify 75mm, 80mm, 85mm, 90mm)               | ea. 104.95 |

#### 8X ZOOM-THRU WIDE ANGLE CONVERTER

The 8X Wide Converter offers the high quality, economical way to expand a lens' angle of view when the shot requires a zoom—as well as situations which require both a wider angle of view and the ability to zoom.

- The 8X attaches quickly to the front of a zoom lens, effectively shortening its focal length while maintaining full zoom capabilities. With the converter attached, 20% more coverage is realized when the lens is set to wide angle, telephoto or anywhere in between. For example, when added to an 8.5-119mm lens, the 8X Wide Converter alters the focal range to 7-98mm. This can be especially advantageous when shooting in confined quarters.
  - The 8X not only expands field of view but also reduces minimum object distance (MOD). The camera can therefore move considerably closer to the subject while maintaining focus. And because there is no light loss with the 8X, there is no need to change exposure or lighting.
- |         |                             |         |
|---------|-----------------------------|---------|
| WA-8XCX | 8X Wide Zoom-Thru Converter | 1479.00 |
| FA-388X | 138mm Filter Adapter        | 164.95  |



#### 6X DOUBLE ASPHERE WIDE ANGLE ADAPTER

- Unequivocally superior to every other wide angle adapter, the 6X Double Asphere utilizes a single element with two aspheric surfaces. This design ensures a performance that is not possible with conventional single element adapters. The adapter minimizes distortion and reduces chromatic aberration while dramatically increasing edge resolution.
- Remarkably lightweight and compact, the 6X was created especially for use with the latest internal focus lenses like Canon and Fujinon's 15x8. The 6X increases their coverage 40%, effectively changing a 15x8 into a super-sharp 4.8mm fixed focal length lens.
- The 6X fits most lenses via interchangeable adapter rings. An accessory lens Shade/Filter Holder allows either a single 4X5 or Panavision-size filter holder.

- |         |   |         |
|---------|---|---------|
| WA-6XAS | 6X Double Asphere (fixed focal length)  | 1225.00 |
| FA-6XAS | Sunshade for 6X Double Asphere with slot to accept one 4x5 or 4x5.65 filter in a holder | 349.95  |
| FH-4X50 | 4x5 Filter Holder   | 199.95  |
| FH-4565 | 4x5.65 Filter Holder  | 199.95  |

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## TASCAM DA-88 Multi-Track Recorder



The first thing you notice about the eight channel DA-88 is the size of the cassette - it's a small Hi-8mm video cassette. You'll also notice the recording time - up to 120 minutes. These are just two of the advantages of the DA-88's innovative use of 8mm technology.

- Intrinsic to the 8mm video format is the Automatic Track Finding (ATF) control system. This approach records the tracking control information, along with the program material, using the helical scan (video) head. Competing S-VHS based systems record the tracking data with a linear recording head, independent of the program data. The S-VHS tape must be run at a higher speed (thereby delivering shorter recording time) to deliver control track reliability, and requires some form of automatic or manual tracking adjustment. Synchronization and tracking must be adjusted, either automatically or manually (just like on your home VCR) as the machine ages, or if the tape is played back on another machine.
- On the other hand, the ATF system ensures that there will be no tracking errors or loss of synchronization. The DA-88 doesn't even have (or need) a tracking adjustment. All eight tracks of audio are perfectly synchronized. What's more, this system guarantees perfect tracking and synchronization between all audio tracks on all cascaded decks - whether you have one deck or sixteen (up to 128 tracks!).
- Incoming audio is digitized by the on-board 16-bit D/A at either 44.1 or 48KHz (user selectable). The frequency response is flat from 20Hz to 20KHz while the dynamic range exceeds 92dB. As you would expect from a CD-quality recorder, the wow and flutter is unmeasurable.
- One of the best features of the DA-88 is the ability to execute seamless Punch-ins and Punch-outs. This feature offers programmable digital crossfades, as well as the ability to insert new material accurately into tight spots. You can even delay individual tracks, whether you want to generate special effects or compensate for poor timing. All of this can be performed easily on a deck that is simple and intuitive to use.

- RC-808 - Single Unit Remote Control
- RC-848 - System Remote Control
- MU-8824 - 24-Channel Meter Unit
- SY-88 - Complete SMPTE/EBU Chase Synchronizing and MIDI Machine Control interface

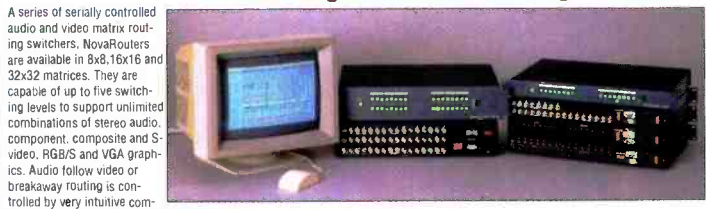
## Fostex RD-8 Multi-Track Recorder



This digital multitrack recorder is designed specifically for the audio professional. Fostex has long been a leader in synchronization, and the RD-8 redefines that commitment. With its built-in SMPTE / EBU reader/generator, the RD-8 can stripe, read and jam sync time code - even convert to MIDI time code. In a sync environment the RD-8 can be either Master or Slave. In a MIDI environment it will integrate seamlessly into the most complex project studio, allowing you complete transport control from within your MMC (MIDI Machine Control) compatible sequencer.

- Full transport control is available via the unit's industry-standard RS-422 port, providing full control right from your video deck. The RD-8 records at either 44.1 or 48KHz and will perform Pull-Up and Pull-Down functions for film/video transfers. The Track Slip feature helps maintain perfect sound-to-picture sync and the 8-Channel Optical Digital Interface keeps you in the digital domain.
- All of this contributes to the superb sound quality of the RD-8. The audio itself is processed by 16-bit digital-to-analog (D/A) converters at either 44.1 or 48KHz (user selectable) sampling rates, with 64X oversampling. Playback is accomplished with 18 bit analog-to-digital (A/D) and 64X oversampling, thus delivering CD-quality audio.
- The S-VHS transport in the RD-8 was selected because of its proven reliability, rugged construction and superb tape handling capabilities. Eight tracks of S-VHS tape allow much wider track widths than is possible on other digital tape recording formats.
- With its LCD and 10-digit display panel, the RD-8 is remarkably easy to control. You can readily access 100 locate points, and cross-fade time is fully controllable in machine to machine editing. Table of Contents data can be recorded on tape. When the next session begins, whether on your RD-8 or another, you just load the set up information from your tape and begin working. Since the RD-8 is fully ADAT compliant, your machine can play tapes made on other compatible machines, and can be controlled by other manufacturers' ADAT controllers. Your tapes will also be playable on any other ADAT deck.
- In addition to familiar transport controls, there are a number of logical, user friendly features. This is the only unit in its class with an on-board, back-lit variable contrast LCD display. It provides all of the information you'll need to keep track of offsets, punch points, generator functions and other pertinent data. Three function keys, combined with HOME, NEXT and UP/DOWN buttons, enable you to navigate the edit menus effortlessly. If you need to have access to front panel controls, the optional model 8312 remote control gives you remote command of the most common functions.

## NovaRouter 8x8, 16x16, 32x32 Intelligent Matrix Routing Switchers



A series of serially controlled audio and video matrix routing switchers. NovaRouters are available in 8x8, 16x16 and 32x32 matrices. They are capable of up to five switching levels to support unlimited combinations of stereo audio, component, composite and S-video, RGB/S and VGA graphics. Audio follow video or breakaway routing is controlled by very intuitive computer software or optional XY control panels.

All NovaRouters include an RS-232 interface and software. The software and VGA display provide quick visualization of all crosspoints and facilitates routing operations. An unlimited number of switching configurations may be stored in memory and recalled at the click of a mouse. User defined labels for all sources and destinations provide positive identification of the matrix status. One PC (386 or better) can control several NovaRouter Systems for multiple studio or large presentation system applications.

An optional, easy-to-use, push-button XY control panel provides routing functions for basic systems without the use of a computer. All video, audio and audio follow video switching functions are controlled by source select and destination select switches. Changing and verifying the matrix configuration is simple and clear. The XY controls may be front panel mounted or are available as a rackmountable remote control unit.

Broadcast quality audio and video processing and microprocessor control ensure superior quality and performance. Yet the simplicity and modular configurations of NovaRouters make them economical for broadcast, production, cable TV, graphics, presentation, educational and teleconferencing applications.

**System Configurations:**

	8 x 8 Matrices:	16 x 16 Matrices:	32 x 32 Matrices:
Video	NR-8V 1395.00	NR-16V 3299.00	NR-32V 7199.00
S-Video	NR-8Y 2995.00	NR-16Y 5799.00	
Stereo Audio	NR-8A 1299.00	NR-16A 2249.00	NR-32A 4999.00
Balance Stereo Audio	NR-8AB 1750.00	NR-16AB 3299.00	NR-32AB 6695.00

XY Front Panel Control:		XY Remote Control:	
	Price		Price
XY-8P	8x8 275.00	XY-8RM	8x8 375.00
XY-16P	16x16 495.00	XY-16RM	16x16 595.00
XY-32P	32x32 895.00	XY-32RM	32x32 995.00

## CHYRON Graphics PC-CODI TEXT and GRAPHICS GENERATOR

A PC-compatible (ISA bus) board, the PC-CODI incorporates a broadcast quality encoder and wide bandwidth linear keyer to provide highest quality realtime, video character generation and graphics display. Used individually or configured with multiple boards, it is a complete and affordable solution for information displays, broadcast, video production or multi-media applications.

- Standard PC/AT ISA bus interface; 2/3 length form factor
- Fully-antialiased displays
- Less than 10nsec. effective pixel resolution
- 16.7 million color selections
- Fast, realtime operations
- Character, Logo and PCX Image transparency
- Display and non-display buffers
- Bitstream typeface library selection
- Variable edges, border, drop shadow and offset
- Variable flush
- Full position and justify control of character & row
- User definable intercharacter spacing (squeeze & expand)
- Multiple roll/crawl speeds • Automatic character kerning
- User definable tab/template fields
- Shaded backgrounds of variable sizes and transparency
- User definable read effects playback, wipes, pushes, fades
- High quality composite & S-video (VHS) encoder
- Integral composite and S-video linear keyer
- NTSC or PAL sync generator with genlock
- Module switchable NTSC or PAL operation
- Software controlled video liming
- Board addressability for multi-channel applications
- Auto display sequencing
- Local message/page memory
- Preview output with safe-title/cursor/menu overlay
- Composite & S-video input with auto-genlock select

## SONY COLOR MONITORS PVM-1350 PVM-1351Q

**13" Presentation Monitor**  
 • Employs a P-22 phosphor line pitch CRT to deliver stunning horizontal resolution of 450 horizontal lines.  
 • Equipped with beam current feedback circuit which eliminates white balance drift for long term stability of color balance.

**13" Production Monitor**  
 • Has analog RGB, S-video and two composite video (BNC) inputs as well as 4 audio inputs.  
 • Automatic Chroma/Phase setup mode facilitates the complex, delicate procedure of monitor adjustment. Using broadcast standard color bars as a reference, this function automatically calibrates chroma and phase.  
 • Chroma/Phase adjustments can also be easily performed with the monochrome Blue Only display. In Blue Only mode video noise can be precisely evaluated.  
 • Factory set to broadcast standard 6500K color temperature.  
 • Provides an on-screen menu to facilitate adjustment/operation on the monitor. The on-screen menu display can be selected in English, French, German, Spanish or Italian.  
 • On power up, automatic degaussing is performed. There is also a manual degauss switch to demagnetize the screen.  
 • Sub control mode allows fine adjustments to be made on the knob control for contrast, brightness, chroma and phase. The desired level can be set to the click position at the center allowing for multi-blanking area and sync/burst timing by displaying the horizontal and vertical intervals in the center of the screen.



**PVM-1354Q/PVM-1954Q 13" and 19" Production Monitors**  
 All the features of the PVM-1351Q PLUS.

- SMPTE C standard phosphor CRT is incorporated in the PVM-1354Q/1954Q. SMPTE C phosphors permit the most critical evaluation of any color subject. Provides over 600 lines of horizontal resolution.
- The PVM-1354Q mounts into a 19-inch EIA standard rack with the optional M8-502B rack mount bracket and SLR-102 slide rail kit same as PVM-1351Q. The PVM-1954Q mounts into a 19-inch EIA rack with the optional SLR-103 slide rail kit.

## SHURE FP32A PORTABLE STEREO MIXER



This small and rugged portable mixer is well equipped to handle the demands of EFF, ENG, live music recording or any other situation that requires a low noise high performance mixer.

- High quality-low noise electronics, perfect for digital recording and transmission
- Three balanced inputs, two balanced outputs plus tape out and monitor
- Supports all types of condenser mics with internal phantom supply
- Inputs can be switched between mic and line level
- Each channel has own pan pot
- Each channel has illuminated meter and peak indicator
- Two units can be cascaded to provide six input channels
- Internal 1KHz oscillator for record and send level calibration
- Internal (2x9V alkaline batteries) or external power
- Switchable low cut filters

## MACKIE MicroSeries 1202 12-Channel Ultra-Compact Mic/Line Mixer



Usually the performance and durability of smaller mixers drops in direct proportion to their price, making lower cost models unacceptable for serious recording and sound reinforcement. Fortunately, Mackie's fanatical approach to pro sound engineering has resulted in the Micro Series 1202, an affordable small mixer with studio specifications and rugged construction. The Micro Series 1202 is a no-compromise, professional quality ultra-compact mixer designed for non-stop 24 hour-a-day professional duty in broadcast studios, permanent PA applications and editing suites where nothing must ever go wrong. So no matter what your application, the Micro Series 1202 is ideal. If price is the prime consideration or you simply want the best possible mixer in the least amount of space, there is only one choice.

## CR-1604 16-Channel Audio Mixer

In less than three years, the Mackie CR-1604 has become the industry standard for compact 16-channel mixers. It is the hands-down choice for major touring groups and studio session players, as well as for broadcast, sound contracting and recording studio users. For them the CR-1604 offers features, specs, and day-in-day-out reliability that rival far larger boards. Its remarkable features include 24 usable line inputs with special headroom/ultra-low noise Unityplus circuitry, seven AUX sends, 3-band equalization, constant power pan controls, 10-segment LED output metering, discrete front end phantom-powered mic inputs and much more.

## TASCAM M-2600 Series 16/24/32 Channel Eight Channel Mixers



**LOW NOISE CIRCUITRY**  
 • Combining completely redesigned, low noise circuitry with Absolute Sound Transparency™ the M-2600 delivers high-quality extremely clean sound. No matter how many times your signal goes through the M-2600, it won't be colored or altered. The signal remains as close to the original as possible. Only the coloring you hear is what you add with creative EQ and your outboard signal processing gear.  
 • Double reinforced grounding system eliminates any hum. World-class power supply provides higher voltage output for better headroom and higher S/N ratio.

**THE BEST AUX SECTION IN THE BUSINESS**  
 The most versatile AUX section in its class: rivaling expensive high-end consoles, 8 sends total, 2 in stereo. Send signal in stereo or mono, pre- or post-fader. Available at all times. Return signal through any of 6 stereo paths.



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## HORITA

### WG-50 Window Dub Inserter

- Makes burned-in SMPTE TC window dub copies
- Indicates drop-frame or non-drop-frame time code
- Also functions as play speed SMPTE time code reader
- Adjustments for horizontal and vertical size and position
- Dark mask or "see-thru" mask surrounds display
- Provides reshaped time code output for copying TC
- Displays time code or user bit • Display on/off
- Field 1/field 2 indicator • Sharp characters
- Always frame accurate (on time)

\$269

### TG-50 Generator / Inserter

Combination time code generator and window dub inserter. It includes all features of WG-50 PLUS—

- Generates SMPTE time code in drop/non-drop-frame format
- Jansync mode joins to time code input and outputs new TC
- Simple "on screen" preset of time code and user bits
- Run/stop operation using front panel momentary switch
- Selectable 30/60/120-second automatic generator back-time
- Make a window dub copy while recording TC on source tape

\$349

### BSG-50 Blackburst/Sync/Tone Generator

The BSG-50 provides an economical means for generating the most common RS-170A video timing signals used to operate various video switchers, effects generators, TBCs, VCRs, cameras and video edit controllers.

- 6 BNC video/pulse outputs
- Now available: 6 blackburst + 4 sync, 2 subcarrier
- Each sync output individually settable for composite sync, composite blanking, H-drive or V-drive
- Separate buffer for each output—maximum signal isolation
- 1 KHz, 0dB sinewave audio tone output, locked to video
- Outputs can easily be configured to meet specific user and equipment needs

\$269



### CSG-50 Color Bar/Sync/Tone Generator

Generates full/SMPTE color bars, blackburst and composite sync signals.

- Built-in timer can automatically switch video output from color bars to color black after 30 or 60 seconds. Easy and convenient for producing tape leaders and stripping tapes with color bars and black.
- Front panel selection of full-field or SMPTE color bar patterns or color/black (blackburst) video output.
- Includes crystal-controlled, 1 KHz, 0dB audio tone output.
- Outputs: video, sync, ref frame, 1 KHz, 0dB
- Audio tone switches to silence and color bars change to black when using 30/60 second timer.
- Fully RS-170A SC/H phased and always correct. No adjustment required.

\$349

### TSG-50 NTSC Test Signal Generator

The TSG-50 generates 12 video test signals suitable for setting up, aligning, and evaluating the performance of various video equipment found in a typical video editing system, such as video monitors, distribution amplifiers, VCRs, switchers, effects generators, TBCs, etc. In addition to the video signals, the TSG-50 also generates composite sync, and with a video DA such as the Horita VDA-50, becomes a high quality, multiple output, house sync generator.

- Fully RS-170A SC/H phased and always correct. No adjustments ever required.
- Built-in timer automatically switches video output from color bar pattern to black after 30 or 60 seconds. Makes it easy to produce tape leaders of color bars followed by black.
- Video signals generated are in accordance with industry standard EIA RS-170A video timing specification.
- Audio tone switches to silence and color bars change to black when using 30/60 second timer.
- Convenient pattern selection - 12 position front panel switch.
- Includes crystal controlled, 1 KHz, 0dB audio tone output.
- Generates precise oscilloscope trigger output signal one H line before start of color field 1.
- Outputs: video, sync, ref frame, 1 KHz, 0dB

\$439

### WE STOCK THE FULL LINE OF HORITA PRODUCTS INCLUDING:

- WG-50 - Window Dub Inserter
- TG-50 - Generator/Inserter
- TRG-50 - Generator/Inserter/Search Speed Reader
- TRG-50PC - Has all of the above plus RS-232 control.
- VG-50 - VITC Generator, LTC-VITC Translator
- VL-T-50 - VITC-to-LTC Translator
- VLT-50PC - VITC-to-LTC Translator / RS-232 Control
- RLT-50 - HR (EVO-9800/9850) LTC to LTC translator
- TSG-50 - NTSC Test Signal Generator
- SCT-50 - Serial Control Titrer "Industrial" C/L
- Time-Date Stamp, Time Code Capioning
- SAG-50 - Convergence Pattern and Oscilloscope Line Trigger and Generator

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### TARGA 2000 PRO PCI PC-based Digital Video Capture Board

Designed for high performance IBM compatibles, Truevision's TARGA 2000 PRO PCI brings tremendous power to the desktop video editing market. With the proliferation of PC-based video (and audio) programs, and the domination of the platform by Microsoft's Windows, there has been a demand for high performance hardware that won't tie up the computer's resources. The TARGA 2000 PRO PCI meets that demand with a board that performs all its own signal processing. Realtime CODEC (COmpression/DECOmpression) processing of audio and video, 24-bit video windowing and full motion/full screen print-to-tape are just a few of its many capabilities.

- Allows recording and playback of video directly to/from hard drive at full motion, full frame rates (50 fields/sec - PAL, 60 fields/sec-NTSC). Video is stored and played back at the highest resolution for each format (768 x 576 x 24 bit - PAL, 640 x 480 x 24 bit - NTSC). Compression can be adjusted on the fly to optimize for image quality and/or minimum storage space.
- Equipped with composite, S-video and component (Betacam) inputs and outputs.
- Accelerated Windows 3.1 and Windows NT drivers offer integrated, true-color (24-bit), non-interlaced desktop up to 1152 x 870 pixels.
- Genlock using separate sync input for working in professional video suites.
- Provides a large work area for displaying video, as well as editing application controls. Any part of the display (or even the whole image) can be recorded to tape (video-out-of-a-window).
- The audio is digitized at 16-bit resolution (at 44.1KHz or 48KHz sampling rates), yielding professional quality stereo sound. Since all audio and video processing is done by on-board DSPs, you are assured of perfectly synchronized sound and images.
- View your desktop and video-in-a-window on your non-interlaced high resolution desktop display while the processed video is output at NTSC or PAL resolutions to a video monitor and/or a VCR.
- All Windows, VFW (Video For Windows) and AUI compatible software, run perfectly on the TARGA 2000. You have a choice of hundreds of applications, with more to come (see Real Impact below).

**Complete Truevision TARGA 2000/Avid Real Impact Non-Linear Turnkey System:**  
 • TARGA 2000 PCI PRO digital video capture board • Avid Real Impact software • 220-watt, 6-bay midtower case • PCI motherboard with 256K synchronous cache • Pentium 133 Mhz processor • Diamond Stealth64 Video VGA display card • 32MB of EDO (Extended Data Out) RAM • Quantum 1GB IDE system drive • Seagate (BarraCuda) 4.1GB SCSI Wide hard drive • Adaptec AHA-1940W Fast Wide SCSI II controller card • 3.5" floppy drive • Toshiba 4x CD-ROM drive • Aitec-Lansing 300, 1 three-piece speaker system • Mag MXG-17F 17" multiscan monitor • Focus 2001A keyboard, Microsoft MS mouse • MS-DOS 6.22, Windows 3.11 and Windows NT 3.51 software **\$14,500**

**Enhancement Options Available:**  
 • Additional 32MB of RAM • Additional 256K cache memory • Seagate (Elite) 9.1GB SCSI Wide hard drive • Mag 21" multiscan monitor • 8x CD-ROM drive • Adobe Premier 4.0a for Windows

## Real Impact Video Editing Software for TARGA 2000



With the introduction of Real Impact, Avid provides Windows users with the same professional image quality, intuitive cut/copy/paste editing, and instant random access capabilities that have won 2 Emmy awards—for thousands of dollars less than outsourcing an average video. Designed exclusively for Truevision's TARGA 2000, Real Impact lets you create professional-quality video with audio, graphics, animations, special effects and titles—with the speed, flexibility and creative freedom you need. Create sales, training and product videos right on your PC quickly and easily—without compromising quality. Produce video in 24-bit color, with CD-quality sound and perfect lip sync.

**Easy to Use:** A true Windows 32-bit application (Windows NT 3.51 or later), Real Impact's intuitive interface and extensive on-line help get you productive right away. It's powerful editing features let you work with video, audio, graphics, animations and titles with the simplicity of cut, copy and paste.

**Video Capture:** Digitize video and audio from your camcorder, VCR or professional tape deck—without dropping a frame. Your video will be full-screen, full-motion, 30 frames-per-second and your audio in sync. With its Dial-a-Quality image feature, Real Impact allows you to adjust image quality for differing system, storage and delivery requirements.

**Create a Storyboard:** Extensive media management with Real Impact's built-in media library and database let you easily find the video and audio clips that you want. Instant random access makes previewing edits simple and immediate. And, with timeline editing, you just click and drag to experiment with different cuts, rearrange clips and assemble your story. There are 32 levels of undo/redo.

**Add Graphics, Titles and Special Effects:** It's easy to create and seamlessly incorporate audio, graphics and animations into your video using popular Windows-based applications. Real Impact supports AVI video files, WAV audio files, FLC animation files as well as BMP, JPEG, PCX, TGA and TIFF graphics files.

**Add Audio:** Polish your audio with music and narration. Adjust pan and volume in real time. Simultaneous playback of four audio tracks makes audio editing quick and easy. View your four audio tracks in sync with the video immediately, no waiting for tracks to compile.

**Digital Media Interchange:** Real Impact is compatible with the Open Media Framework (OMF) Interchange, an industry-standard file format for the seamless integration of digital data among applications and across platforms. Through OMF, you can import video and audio files from other OMF-compatible applications such as Avid's Media Composer system.

**Output to Tape, CD-ROM or Over a Network:** Real Impact gives complete control over how you distribute video. There's no long rendering process—creating professional quality tape as a snap. Embedding video in multimedia presentations for distribution on disk or CD-ROM is as simple as the click of a mouse. Support for third-party MPEG tools make it possible to create MPEG files for network distribution.

**Avid's Support Advantage:** Like all other Avid products, Real Impact is backed by Avid's world-class customer service. Toll-free telephone support and bulletin board service are just some of the benefits.

### Real Impact Features:

- Video:**
  - Real-time JPEG compression, decompression and playback at 60 fields per second.
  - Supports Sony serial and VLAN deck control protocols, supports SMPTE time code.
  - Edit two tracks of video for layered effects.
- Audio:**
  - Edit up to four tracks of audio at 44.1 KHz, 16-bit CD-quality audio.
  - Real-time pan and volume adjustments, digital audio scrub.
  - Audio waveform for precise audio editing.
- Digital Editing:**
  - Instant random access to footage. Cut, copy, paste editing with 32 levels of undo and redo.
  - Instant trim editing mode, plays back all edits instantly.
- Import/Export:**
  - AVI video files, WAV audio files, FLC animation files.
  - OMF interchange files.
  - BMP, JPEG, PCX, TGA and TIFF graphics files.
- Special Effects:**
  - Filter effects with previews and adjustable parameters.
  - Transition effects include wipes, dissolves, zooms, pushes and squeezes.
  - Layered effects include picture-in-picture, luminance and chroma key.
  - Support for Avid TransLammer effects Vol. 2 or later (Vol. 1 requires a free update through Avid Technical Support).
- Integrated Title Generator:**
  - Fully anti-aliased titles.
  - 32-bit processing (24-bit color and 8-bit alpha channel).
  - Support for TrueType fonts and international character sets.
  - Drop shadows, transparency and color blends.
  - NTSC and PAL-safe color palettes.
- Media Management:**
  - Media library for organizing digital media clips.
  - Database with search capabilities.
  - Customized views for easy clip access and retrieval.

## MAGNI



### MM-400

The MM-400 is a combination waveform and vector monitor especially configured for the cost-conscious producer. A low-cost alternative to CRT-based waveform monitoring the MM-400 produces a video picture of the input signal's waveform and displays it on any video monitor. It provides a simple, affordable and accurate way to set camera levels before a shoot, or to check time base correctors and color fidelity in editing. Problems like hue shift, smearing, muted contrast and loss of detail are easily identified for correction.

- FEATURES:**
- Converts waveform or vector display information into a standard video signal which can be displayed on a video monitor or routed around a video facility, no need for additional expensive monitors. Switch between pictures and waveforms at the push of a button.
  - Incorporates an advanced SC/H phase and color frame indicator that is a must for editing and post production. At a glance it tells you if a signal's subcarrier-to-horizontal phase is properly adjusted and if the signal's color frame matches the house black burst connected to the MM-400 external reference input.
  - Works anywhere and with any analog video format—NTSC, PAL, Component or S-Video. It has automatic detection between NTSC and PAL formats.
  - Three loop-through inputs can accept three composite signals or one component or RGB signal.
  - No complex displays or special test signals are required for component video monitoring.
  - Interchannel timing and amplitude display make component analog monitoring easy, has color bar limit markings for Betacam, M-II and SMPTE formats.
  - Waveform and vectorscope controls, including channel, sweep speed, position control, phase rotation are on easy-to-see dedicated pushbuttons.
  - Besides instant toggling between picture and waveform, a mix mode combines waveform and picture displays for simultaneous viewing.
  - The MM-400 can be readily used by even novice operators. It has easy-to-understand set-up menus for display color, interchannel timing, SC/H phase alarm.
  - Usable in any video facility of any size for displaying signals, its low cost makes it affordable by the smallest studio, while its features and performance make it ideal for monitoring in high-end facilities as well.

## LEADER

### Model 5850C Vectorscope

An ideal companion for the 5860C Waveform Monitor, the 5850C adds simultaneous side-by-side waveform and vector monitoring. Feature 1 is an electronically-generated vector scale that precludes the need for fussy centering adjustments and eases phase adjustments from relatively long viewing distances. Provision is made for selecting the phase reference from either (A or B) inputs or a separate external timing reference.

### Model 5860C Waveform Monitor

A two-input waveform monitor, the 5860C features 1H, 1V, 2H, 2V, 1 us/div and 2V MAG time bases as well as vertical amplifier response choices of flat, IR (low pass), chroma and DR-STEP. The latter facilitates easy checks of luminance linearity using the staircase signal. A PIX MON output jack feeds observed (A or B) signals to a picture monitor, and the unit accepts an external sync reference. Built-in calibrator and on-off control of the DC restorer is also provided.

### Model 5864A Waveform Monitor



A fully portable waveform monitor for field use, the Model 5864A is a two-channel unit that provides 2H and 2V sweeps with MAG FLAT and IRE response, and normal and X4 gain.

### Model 5854 Vectorscope

2-channel portable vectorscope is ideal for field use and features A and B phase reference, fixed and variable gain. Both units shown with optional battery holder and NP-1 type battery.



Month	Cover Story	Additional Features
<b>July</b>	Transmission systems	Format conversion Broadcast 2000 \$\$\$ from data
Production	Handling multichannel audio	
Interactive	Networking your PCs	
Transition to digital	Integrating servers for post applications	
Transmission	Extending the life of VHF transmission systems	
AT/FR	two	
<b>August</b>	Building for multichannel	New acquisition formats Wireless mics Digital recorders
IBC		
Production	Using satellite services	
Interactive	High speed Internet access	
Transition to digital	Calculating the cost of ATV	
Transmission	Lighting for towers	
<b>September</b>	Video storage	Broadcast 2000 Digital audio workstations Newsroom technology
WME		
Production	Widgets you need	
Interactive	Cyberspace terminology	
Transition to digital	Designing for multichannel	
Transmission	Test & Measurement for RF	
<b>October</b>	Digital audio	Production suite technology Optics for cameras Salary survey
AES		
Production	Lighting for video	
Interactive	Building a home page	
Transition to digital	Studio sets: real and unreal	
Transmission	Winterizing the transmitter site	
<b>November</b>	Testing digital systems	Using automation Compositing and effects Broadcast 2000
Production	Using DAT Timecode	
Interactive	Stations on the Web	
Transition to digital	New \$\$\$ opportunities with ATV	
Transmission	Auxiliary power systems	
<b>December</b>	Desktop video wars	Cable/broadcast partnerships Studio acoustics The advantages of tape
Production	Battery technology	
Interactive	Multimedia on the Web	
Transition to digital	ATM doesn't mean auto teller	
Transmission	Maintaining dual VHF/UHF transmission systems	

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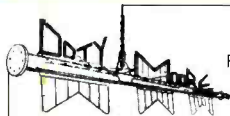
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### SCP-10 (Serial 422 Patch Panel)

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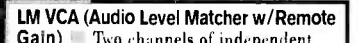
### SPK-2 (Two Channel Audio Monitor)

Two channel audio confidence monitoring. Accepts both balanced and unbalanced inputs. Five switchable listening modes. Headphone output with speaker mute. \$650



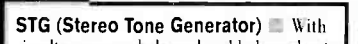
### LM 2+2 (Audio Level Matcher)

Provides a complete interface between an unbalanced audio device and a balanced environment. Two channels of balanced to unbalanced conversion complement two channels of unbalanced to balanced. Independent gain trims. \$212



### LM VCA (Audio Level Matcher w/Remote Gain)

Two channels of independent voltage controlled gain with gain trims. Balanced or unbalanced inputs and outputs. 100 dB range with 0 to +5V control. True logarithmic response. Used for remote gain riding, remote monitor gain. \$255



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